

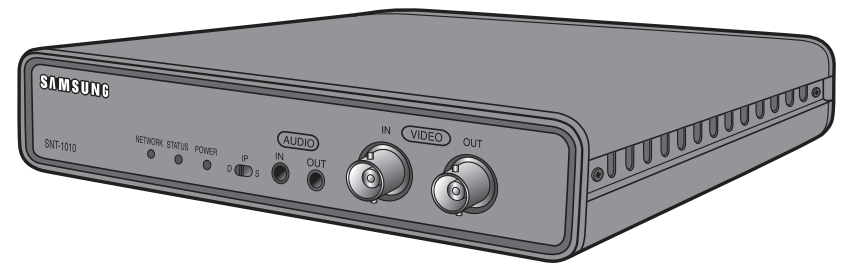


Safety instructions and precautions are designed to protect users and prevent any property damage.
Please read and observe these instructions thoroughly before using the SNT-1010.

SNT-1010

SNT-1010 1 CH Video Server

User's manual



Features

Various Communication Protocol Support

This product supports support various communication protocols such as ARP, HTTP and DHCP as well as TCP/IP, UDP, SMTP for e-mail transmission and FTP protocol.

Automatic Local IP Setting Function

This function offers an easy way of configuring the network settings with a minimal key input for those who are not familiar with it.

Alarm Function

If this product is connected with a motion sensor and the sensor detects a motion, a recorded video clip is sent through an FTP/E-Mail registered by the user and a signal is sent to an alarm output port.

Monitoring Through Web Browser

Monitoring Through Web Browser This product enables watching a video through an Internet web browser so that you can watch a video through the Internet as you can within the local network.

UPnP (Universal Plug and Play) Function

It this product is connected with an IP sharer supporting UPnP function, it automatically provides port forwarding that allows connections from the external Internet.



Motion Detection Function

If the user specifies a target area to monitor and the motion sensor detects a motion within that area, a recorded video clip is sent through an FTP/E-Mail registered by the user and a signal is sent to an alarm output port.




Before You Start

Before you start, please read the following descriptions.

Icons for the Safety Precautions

Icon	Name	Description
	Warning	If you do not follow the instructions marked with this label, it may cause a serious physical damage.
	Notice	If you do not follow the instructions marked with this label, it may cause a serious physical damage or loss of property.

Icon Description

Icon	Name	Description
	Notice	This label indicates that the product may not work properly or the settings may be initialized.
	Note	This label indicates tips for the use of the product or shows the page numbers that can be referred to.
	Before You Start	This label indicates the settings to be set in advance of product use.

Class A Equipment (For Office Use)

This device has been registered regarding EMI for office use only. Please the product provider and customer keep this in mind and exchange this product for a product designed for home use if necessary.

"Underwriters Laboratories Inc. has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock and casualty hazards as outlined in UL's Standard for Safety UL 60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product.
UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT."

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System Requirements

Recommended PC Specifications

- CPU : Pentium4/1.5GHz or higher (At least Pentium4/1.0GHz)
- Video Memory : 128MB
- Operating System : Windows XP / Windows 2000 Professional
- Resolution : 1024X768 pixels or higher
- RAM : 256MB or more
- Web Browser : Internet Explorer 5.0 or later DirectX 8.1 or later

Compatible IP Sharers

- LINKSYS WRT54G
- D-LINK DI-624
- NETGEAR WGT624

Safety Precautions

To avoid physical damage and loss of property, please read and follow the safety precautions given below.

Warning

If you do not follow the instructions, it may cause a serious physical damage.

Power Related

There is a risk of fire, electric shock or physical injury.



Use the AC adapter authorized by the company only. (DC 8.4V/1A)

Using an unauthorized AC adapter may cause fire, electric shock or malfunction.



Plug the power cable firmly so that the power plug is not loose.



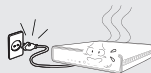
Do not plug multiple power cables into a wall outlet.



Do not bend the power cable excessively or place a heavy object over the cable.



Do not hold the power plug with a wet hand.



If the product emits smoke or make a strange smell, immediately disconnect the power and contact the customer service.

If you continue using this product, it may cause a fire or electronic shock.



In case of lightning or thunder storm, immediately disconnect the power cable from the wall outlet.

Otherwise, it may cause fire or malfunction of the product.

Operation Related

There is a risk of fire, electric shock or physical injury.



Do not place metal matters over SNT-1010 such as a screw driver, coin, metal parts, etc., or a container filled with liquid.

Otherwise, it may cause fire, electric shock or physical injury.



Do not install the product in a humid, dusty or sooty place.

Otherwise, it may cause fire or electric shock.

Warning

If you do not follow the instructions, it may cause a serious physical damage.

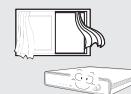
Operation Related

There is a risk of fire, electric shock or physical injury.



Do not install the product in a place where temperature is excessively high (50°C or higher) or low (minus 10°C or lower) or a humid place.

Otherwise, it may cause a fire or electronic shock.



Do not install the product in a place where the direct sunlight reaches or near a heater. Install the product in an airy place.

Otherwise, it may cause fire.



Do not disassemble, repair or modify the product.

■ If the product does not work properly, please contact your product provider or customer service center.

■ The company shall not be held liable for the problem caused by user's disassembly or repair.

Notice

If you do not follow the instructions, it may cause a serious physical injury or loss of property.

Operation Related

There is a risk of damage to the product.



Avoid dropping the product or impact on the product.

There is a danger of damage to the product.



Keep the product away from a shaking place or magnetic matter.

There is a risk of damage to the product.



Do not spray water directly onto the product for cleaning.

Otherwise, it may cause fire or electric shock.



Do not move the product while it is in operation.

Make sure to move or reinstall the product after turning it off.

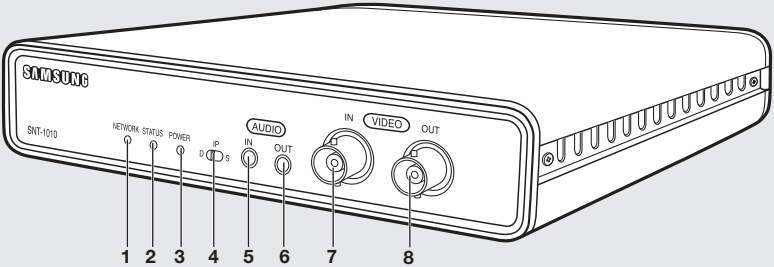


Clean the product surface with a soft, dry cloth.

Never use chemicals or cleansing solutions to clean the product, because using them may deteriorate or remove the painting.

View of SNT-1010

Front View

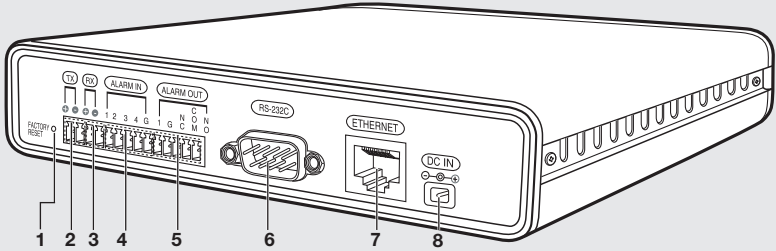


- | | | |
|--------------------|--------------------|------------------|
| 1 Network LED | 4 IP Select Switch | 7 Video IN Port |
| 2 Status LED (*) | 5 Audio IN Port | 8 Video OUT Port |
| 3 Power LED | 6 Audio OUT Port | |

* Status LED (Indicates the operational status of SNT-1010).

- **Green** : Normal operation
- **Blinking Green** : If the IP setting has failed in DHCP
- **Red** : When the file upload is in process or the NTP connection has failed
- **Blinking Red** : If SNT-1010 causes a problem or you reset the system to the factory default, the red LED blinks 3 times.
- **Blinking Yellow** : When SNT-1010 gets started

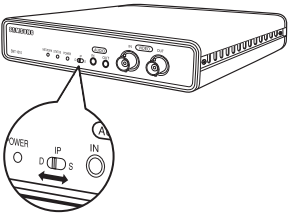
Rear View



- | | | |
|------------------------------|------------------|-----------------|
| 1 FACTORY RESET Button (*) | 4 Alarm IN Port | 7 Ethernet Port |
| 2 TX Port | 5 Alarm OUT Port | 8 Power Port |
| 3 RX Port | 6 RS-232C Port | |

* **FACTORY RESET Button** : This will return the settings of SNT-1010 to the factory default. Refer to <Resetting the System> in the user guide.

To select an IP address allocation method



Slide the [IP Select Switch] left or right to position it to <D> or <S>.

- **D (Dynamic IP)** : Slide the switch to this position for the following cases.
 - Select this when you install SNT-1010 on the IP sharer and use the DHCP function of the sharer to automatically obtain the IP address.
 - When SNT-1010 is installed onto an xDSL (e.g. VDSL) or Cable modem supporting DHCP.
 - When the IP address is automatically allocated by DHCP without manual allocation.
- **S (Static IP)** : Slide the switch to this position when you directly enter an IP address using the IP Installer.
 - The factory default setting is Static IP.
 - Select this if you are informed of IP address, Gateway and Subnet Mask information.

View of SNT-1010 (Continued)

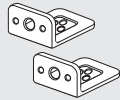
Accessories



Power Cable

AC Adapter
(DC 8.4V/1A)

CD

Owner's Manual
(Including Warranty)

Fixing Metals (2)



Fixing Blocks (4)

Screws
(2 Big and 4 Small Screws)

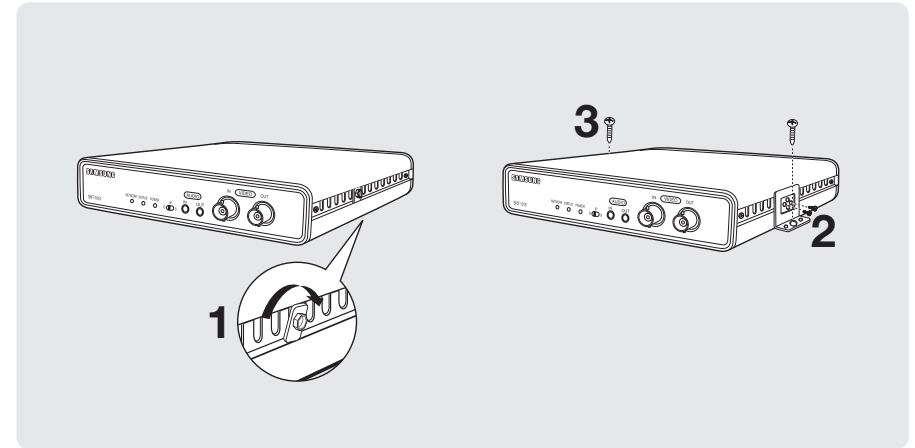
RS-485/Alarm Port

The latest version of the software is available on Samsung Electronics web site (<http://www.samsung.com>).

Installing SNT-1010

Disconnect the power cable before installing or moving the product.

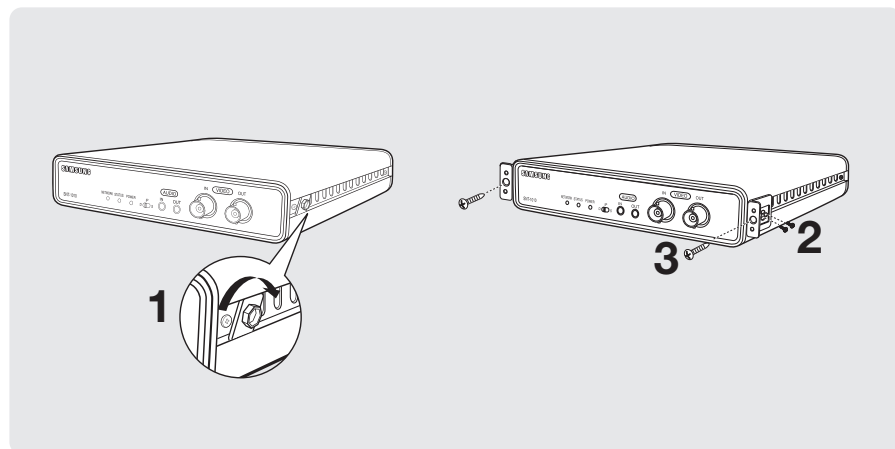
To install on a floor or wall. Assemble as follows for both sides of the main body.



- 1** Insert the Fixing Block onto a side of the product and turn it in the arrow direction as described in the figure.
- 2** Fix the Fixing Metal onto the Fixing Block using the 2 screws (small).
 - Fix the Fixing Metal so that the bottom of the Fixing Metal faces the floor or wall.
- 3** Fix the Fixing Metal on the floor or wall using one screw (big).

Installing SNT-1010 (Continued)

To install onto a dedicated shelf Assemble as follows for both sides of the main body.



1 Insert the Fixing Block onto a side of the product and turn it in the arrow direction as described in the figure.

2 Fix the Fixing Metal onto the Fixing Block using the 2 screws (small).

- Fix the Fixing Metal so that the bottom of the Fixing Metal faces forward.

3 Fix the Fixing Metal on the shelf using one screw (big).



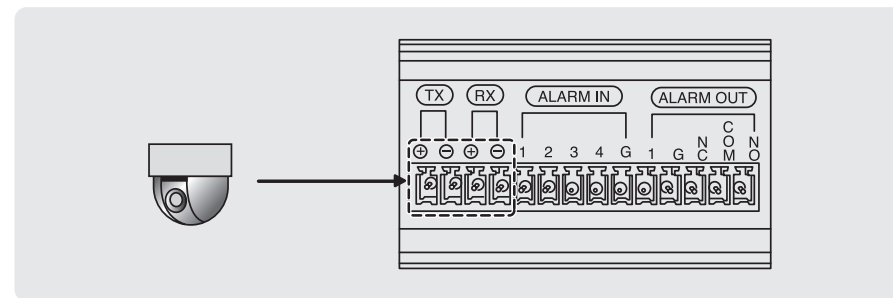
Notice

- When you install this product on a wall, check if the wall is strong enough to sustain the weight of the product.
- Dropping of this product may cause an injury when it is installed on a wall. Therefore fix the product firmly when you install this product on a wall.
- This product is designed for indoor use. Install this product in a dry place so that it is not wet by rain or snow.

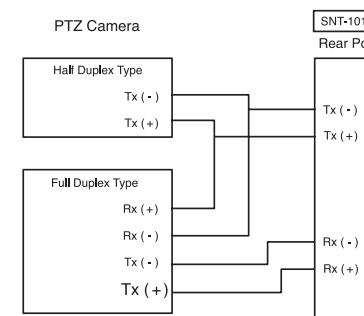
Connecting SNT-1010

If you connect the SNT-1010 to the Internet and setup the network settings, you can monitor the picture of the connected camera in real-time.

To connect to RS-485



- You can use the rear port of SNT-1010 to connect to the RS-485 device.
- You can install and control over a PTZ camera that supports RS-485 communications.
- You can make the connection in either Half Duplex or Full Duplex.



- The baud rate available is : 600/1200/2400/4800/9600/19200/38400.

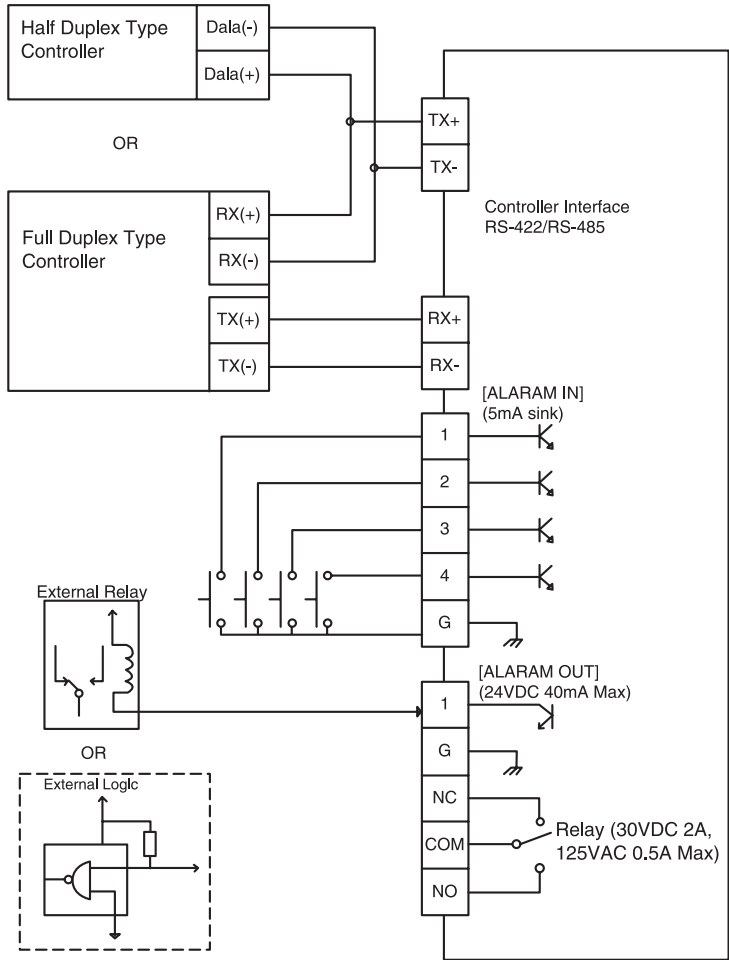


Notice

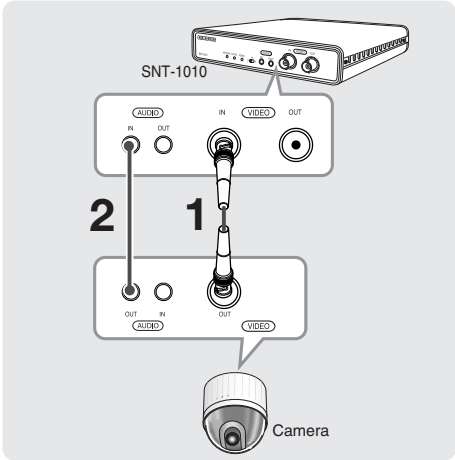
- Ensure that the RS-485 device you want to use is compatible with SNT-1010.
- Ensure that you connect to the RS-485 device so it fits the polarity of the port.

Connecting SNT-1010 (Continued)

RS-485, ALARM I/O Block Diagram

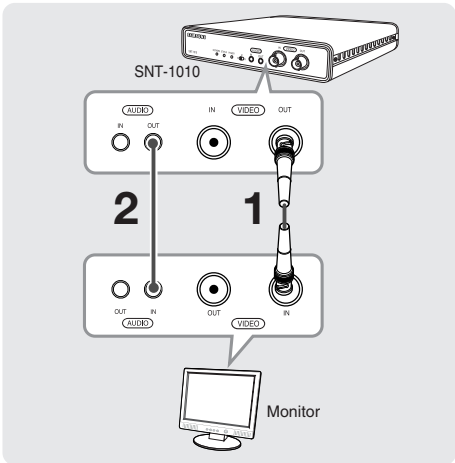


To Connect a Camera Input



- 1 Connect the [VIDEO IN] port of the SNT-1010 and the VIDEO OUT port of the camera.
- 2 Connect the [AUDIO IN] port of the SNT-1010 and the AUDIO OUT port of the camera.
 - If the camera provides an AUDIO OUT port.

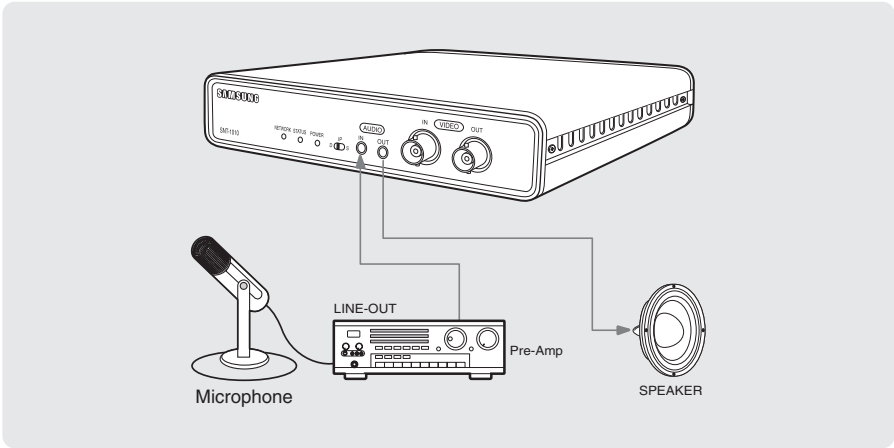
To Connect a Monitor Output



- 1 Connect the [VIDEO OUT] port of the SNT-1010 and the VIDEO IN port of the monitor.
- 2 Connect the [AUDIO OUT] port of the SNT-1010 and the AUDIO IN port of the monitor.

Connecting SNT-1010 (Continued)

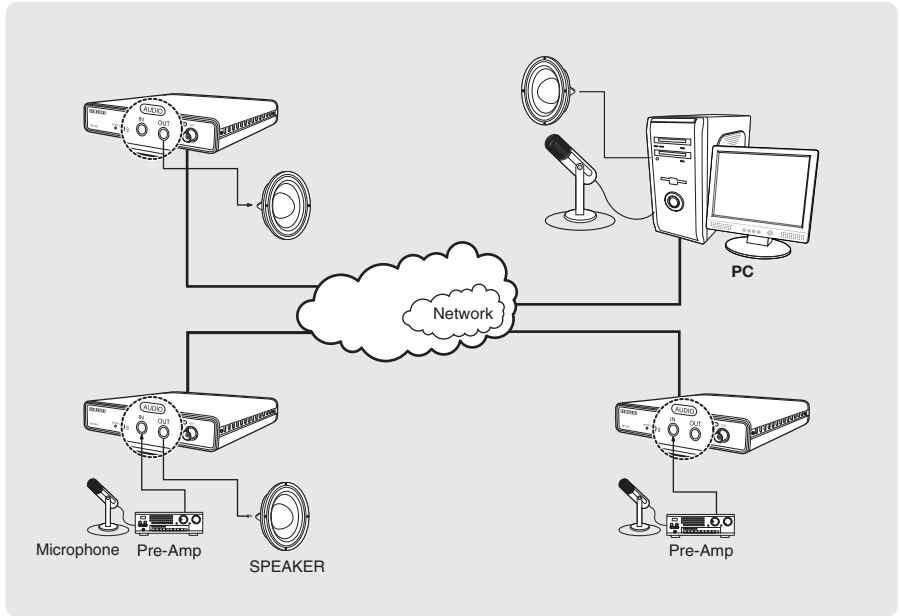
To connect to Audio Input/Output



- 1 Connect the [AUDIO IN] port of the SNT-1010 with the LINE OUT port of the amplifier that the microphone is connected to.
- 2 Connect the [AUDIO OUT] port of the SNT-1010 with the LINE IN port of the speaker.

! Notice If you connect the microphone to the AUDIO OUT port, you can't hear a sound. MIC IN is not enabled.

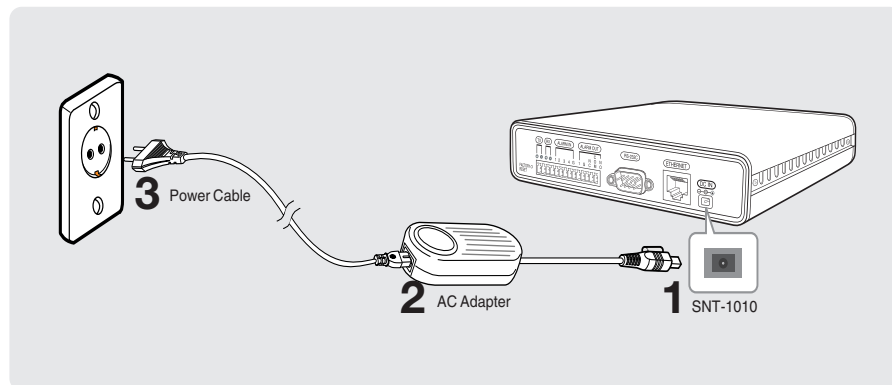
Audio I/O Block Diagram



- Audio Codec :G.711 PCM, μ -law 64kbps 8kHz sampling
- Full duplex Audio
- Audio in : Used for mono signal line input (Max.2.4 Vpp)
- Audio out : Used for mono signal line output (Max.2.4 Vpp)
Line out impedance :600ohm

Connecting SNT-1010 (Continued)

To Connect the Power



1 Connect the AC adapter to the Power port of the SNT-1010.

2 Connect the power cable to the AC adapter.

3 Plug the power plug into the wall outlet.

- If the power is connected, the [POWER] LED is turned on.



Notice

- Use AC adapter authorized by the company only. (DC 8.4V/1A)

Network Connection & Setup

You can set up the SNT-1010 network settings according to your network configurations.

SNT-1010 network connection and setup processes are given as follows.

- Connect SNT-1010 to an IP sharer with a xDSL/Cable modem ▶ Page 20
- Connect SNT-1010 to an IP sharer with local area networking ▶ Page 25
- Connect SNT-1010 directly to a DHCP-based xDSL/Cable modem ▶ Page 30
- Connect SNT-1010 directly to local area networking ▶ Page 31



Note

- SNT-1010 compliant IP sharers are as listed below.
 - LINKSYS WRT54G
 - D-LINK DI-624
 - NETGEAR WGT624
- Do not use other IP sharers than SNT-1010 authorized ones. Otherwise, it can cause a network error.
- Depending on the performance of the PC (Viewer installed) or the network, the video transmission can be delayed or even disconnected. For soft video transmission, you can set the bandwidth in <NETWORK> → <STREAMING SETUP> under the SNT-1010 setup menu.
- LINKSYS WRT54G IP sharer is taken example for the description of the IP settings in this manual. For more information on the third party's IP sharer, refer to the product's documentation.

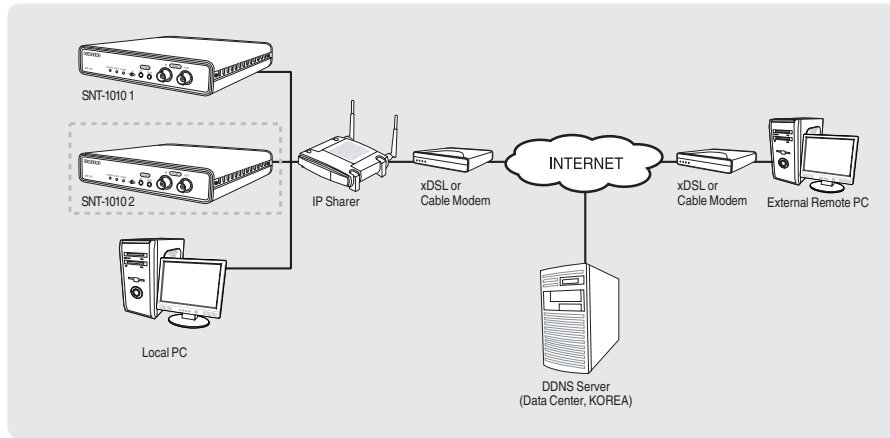


Notice

- The IP and MAC addresses used in this manual are for illustrative purposes only. Therefore, you must refer to the network settings of your PC and do not enter the addresses presented in this manual.

To Connect SNT-1010 to an IP sharer with the xDSL/Cable modem

This is for a small network environment such as homes, SOHO and ordinary shops.



[STEP 1] To configure the network settings of the local PC connected to an IP sharer

To configure the network settings of the local PC connected to an IP sharer, follow the instructions below.

- Select : <Network Neighborhood> → <Properties> → <Local Area Connection> → <Properties> → <General> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> or <Use the following IP address>
- Follow the instructions below if you select <Use the following IP address>:
 - ex1) If the address (LAN IP) of the IP sharer is 192.168.1.1
 IP address : 192.168.1.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.1.1
 - ex2) If the address (LAN IP) of the IP sharer is 192.168.0.1
 IP address : 192.168.1.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.0.1
 - ex3) If the address (LAN IP) of the IP sharer is 192.168.xxx.1
 IP address : 192.168.1.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.xxx.1

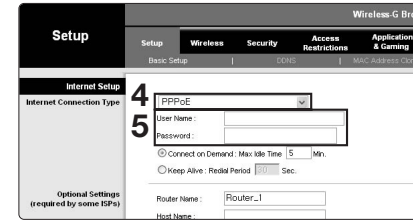


Note

- For the address of the IP sharer, refer to the product's documentation.

[STEP 2] To connect the IP sharer to a xDSL /Cable modem

A. If the IP sharer is connected to an xDSL modem using PPPoE



Note

- To check if your xDSL modem uses PPPoE or DHCP, contact the Internet service provider.

1 Launch an Internet browser on the local PC connected to the IP Sharer.

2 Enter the IP Sharer's address in the address bar of the browser.

ex) <http://192.168.1.1> , <http://192.168.0.1> or <http://192.168.xxx.1>

- For the address of the IP sharer, refer to the product's documentation.

3 When the IP Sharer is connected, the login window appears and prompts you to enter the password.

- For the login IP and the password, refer to the IP sharer's documentation.

4 When done, you will see the setup window of the IP sharer. In the setup menu, select "PPPoE" for Internet Connection Type.

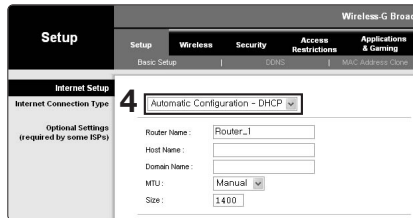
- For the menu location of Internet Connection Type and PPPoE, refer to the IP sharer's documentation.

5 Enter the <User Name> and <Password> provided by your ISP (Internet Service Provider) before you can access the Internet.

6 When done, click the <Save> or <Apply> button to save the settings.

To Connect SNT-1010 to an IP sharer with the xDSL/Cable modem (Continued)

B. If the IP sharer is connected to an xDSL modem using DHCP



1 Launch an Internet browser on the local PC connected to the IP Sharer.

2 Enter the IP Sharer's address in the address bar of the browser.
ex) http://192.168.1.1 ,http://192.168.0.1 or http://192.168.xxx.1

- For the address of the IP sharer, refer to the product's documentation.

3 When the IP Sharer is connected, the login window appears and prompts you to enter the password.

- For the login IP and the password, refer to the IP sharer's documentation.

4 When done, you will see the setup window of the IP sharer. In the setup menu, select "Automatic Configuration-DHCP" for Internet Connection Type.

- For the menu location of Internet Connection Type and DHCP, refer to the IP sharer's documentation.

5 Some Internet service providers may require additional information such as user ID, password or host name for the connection using DHCP. For more information, contact your Internet service provider.

6 When done, click the <Save> or <Apply> button to save the settings.

[STEP 3] To check if the IP sharer is connected to the xDSL /Cable modem properly

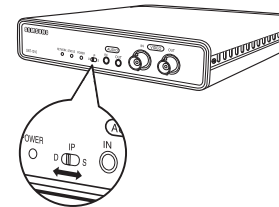
Select <Status> from the Settings menu of the IP Sharer

- If it is properly connected, <IP Address>, <Subnet Mask> and <Gateway> provided by your ISP are displayed. Please remember these values because they are required so that an external remote computer of the IP sharer connects to SNT-1010. However, note that certain ISPs change the settings of <IP Address>, <Subnet Mask> and <Gateway> on a regular basis
- If the IP sharer is not properly connected, press the <Connect> button to try to reconnect or check if the settings of the IP sharer are correct.

[STEP 4] To connect SNT-1010 to the IP sharer

A. If using Dynamic IP mode of SNT-1010

1. Position the IP selection switch to D (Dynamic IP).
2. SNT-1010 is connected to the IP sharer using the Direct LAN Cable (UTP cable).
 - SNT-1010 does not come with the Direct LAN cable. You have to purchase it separately.
3. Connect SNT-1010 to the power source.
4. When SNT-1010 starts, it automatically obtains an IP address from the IP sharer.
5. You can check the dynamic IP address from the IP sharer by using the IP installer on your PC.
 - For how to use the IP installer, refer to "Dynamic IP Setting: Check Dynamic IP" on page 38.

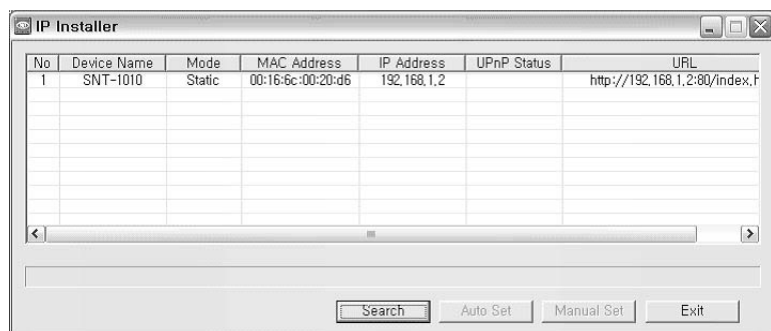


B. If using Static IP mode of SNT-1010

1. Position the IP selection switch to S (Static IP).
2. SNT-1010 is connected to the IP sharer using the Direct LAN Cable (UTP cable).
 - SNT-1010 does not come with the Direct LAN cable. You have to purchase it separately.
3. Connect SNT-1010 to the power source.
4. Use the IP installer on your local PC to configure the <IP address>, <Subnet Mask>, <Gateway> and <Port> settings.
 - For how to use the IP installer, refer to "Static IP Setting" on page 33.

To Connect SNT-1010 to an IP sharer with the xDSL/Cable modem (Continued)

[STEP 5] To connect a local PC in the IP sharer to SNT-1010



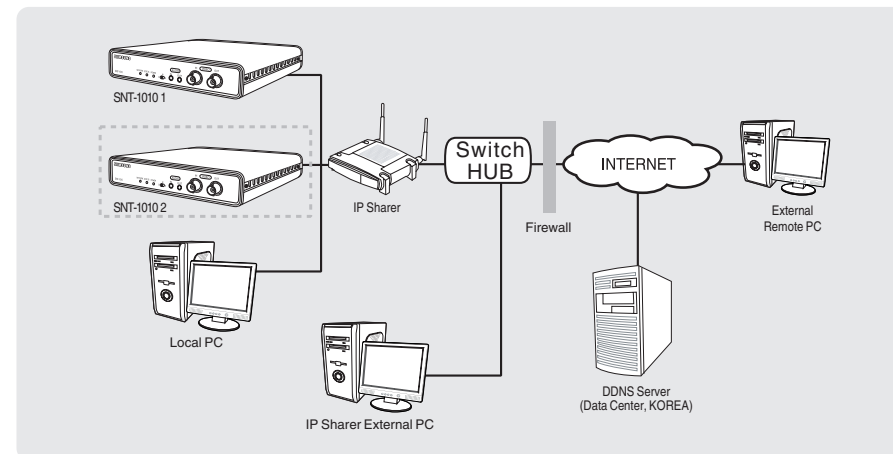
- 1 Run the IP Installer on your local PC and search for SNT-1010.
- 2 If found, double-click the SNT-1010 to start the Internet browser and try to connect to SNT-1010. Alternately, launch the Internet browser manually and enter the IP address of the SNT-1010 found in the address bar to connect to it.
ex) <http://192.168.1.2>

[STEP 6] To connect to SNT-1010 from a remote PC

- 1 You can't use the IP Installer on a remote PC that is not connected to the IP sharer. This is because the IP Installer does not work on the Internet.
- 2 You can use DDNS URL of SNT-1010 to connect to the IP sharer internal SNT-1010.
- 3 However, you must set the port-forwarding for the IP sharer before you can connect to the IP sharer internal SNT-1010 from a remote PC.
 - For more information on the port-forwarding, refer to Use IP Sharer: Port Forwarding Setting (Port Mapping).
- 4 When the port forwarding is done, run the Internet browser on the remote PC and enter the DDNS URL address or, the Internet IP address of the IP sharer in the address bar for connecting to SNT-1010.
ex) <http://mffe42.websamsung.net>
 - For the DDNS URL address, refer to "To check the DDNS address" on page 41.

Connect SNT-1010 to an IP sharer with local area networking

This is for a large network environment such as corporate office, building, public office and factory.



[STEP 1] To configure the network settings of the local PC connected to an IP sharer

To configure the network settings of the local PC connected to an IP sharer, follow the instructions below.

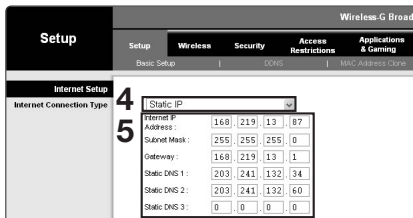
- Select : <Network Neighborhood> → <Properties> → <Local Area Connection> → <Properties> → <General> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> or <Use the following IP address>
- Follow the instructions below if you select <Use the following IP address>:
 - ex1) If the address (LAN IP) of the IP sharer is 192.168.1.1
 IP address : 192.168.1.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.1.1
 - ex2) If the address (LAN IP) of the IP sharer is 192.168.0.1
 IP address : 192.168.1.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.0.1
 - ex3) If the address (LAN IP) of the IP sharer is 192.168.xxx.1
 IP address : 192.168.1.100
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.xxx.1



■ For the address of the IP sharer, refer to the product's documentation.

Connect SNT-1010 to an IP sharer with local area networking (Continued)

[STEP 2] To configure the network settings of the IP Sharer



1 Launch an Internet browser on the local PC connected to the IP Sharer.

2 Enter the IP Sharer's address in the address bar of the browser.

ex) <http://192.168.1.1> , <http://192.168.0.1> or <http://192.168.xxx.1>

■ For the address of the IP sharer, refer to the product's documentation.

3 When the IP Sharer is connected, the login window appears and prompts you to enter the password.

■ For the login IP and the password, refer to the IP sharer's documentation.

4 When done, you will see the setup window of the IP sharer. In the setup menu, select "Static IP" for Internet Connection Type.

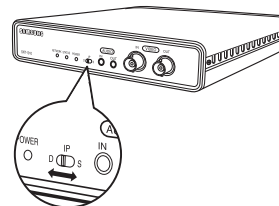
■ For the menu location of Internet Connection Type, refer to the IP sharer's documentation.

5 Enter <IP Address>, <Subnet Mask>, <Gateway> and <DNS> to connect to the Internet.

■ For the value for each of the fields, contact your network administrator.

6 When done, click the <Save> or <Apply> button to save the settings.

[STEP 3] To connect SNT-1010 to the IP sharer



A. If using Dynamic IP mode of SNT-1010

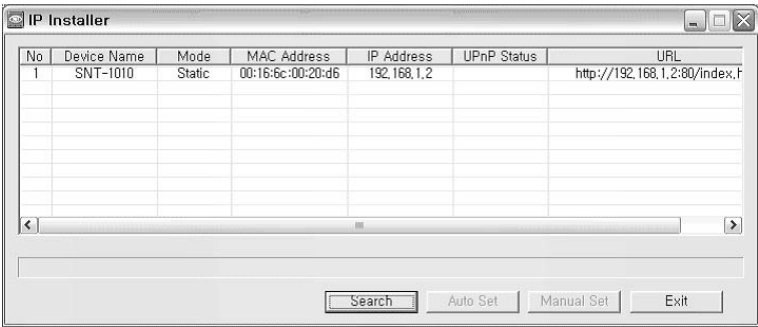
1. Position the IP selection switch to D (Dynamic IP).
2. SNT-1010 is connected to the IP sharer using the Direct LAN Cable (UTP cable).
 - SNT-1010 does not come with the Direct LAN cable. You have to purchase it separately.
3. Connect SNT-1010 to the power source.
4. When SNT-1010 starts, it automatically obtains an IP address from the IP sharer.
5. You can check the dynamic IP address from the IP sharer by using the IP installer on your PC.
 - For how to use the IP installer, refer to "Dynamic IP Setting: Check Dynamic IP" on page 38.

B. If using Static IP mode of SNT-1010

1. Position the IP selection switch to S (Static IP).
2. SNT-1010 is connected to the IP sharer using the Direct LAN Cable (UTP cable).
 - SNT-1010 does not come with the Direct LAN cable. You have to purchase it separately.
3. Connect SNT-1010 to the power source.
4. Use the IP installer on your local PC to configure the <IP address>, <Subnet Mask>, <Gateway> and <Port> settings.
 - For how to use the IP installer, refer to "Static IP Setting" on page 33.

Connect SNT-1010 to an IP sharer with local area networking (Continued)

[STEP 4] To connect a local PC in the IP sharer to SNT-1010



- 1 Run the IP Installer on your local PC and search for SNT-1010.
- 2 If found, double-click the SNT-1010 to start the Internet browser and try to connect to SNT-1010. Alternately, launch the Internet browser manually and enter the IP address of the SNT-1010 found in the address bar to connect to it.
ex) http://192.168.1.2

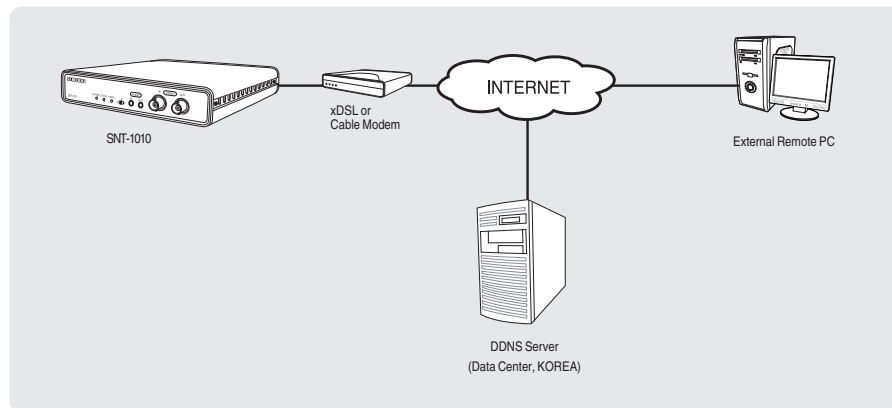
[STEP 5] To connect to SNT-1010 from an IP sharer external PC

- 1 An IP sharer external PC can't use the IP Installer to search for an IP sharer internal SNT-1010 This is because the IP Installer does not work in a network where the gateway is different.
- 2 In this case, you can use the DDNS URL of SNT-1010 or the Internet IP address of the IP sharer to connect to the IP sharer internal SNT-1010.
- 3 However, you must set the port-forwarding for the IP sharer before you can connect to the IP sharer internal SNT-1010 from a remote PC.
 - For more information on the port-forwarding, refer to Use IP Sharer: Port Forwarding Setting (Port Mapping).
- 4 When the port forwarding is done, run the Internet browser on the IP Sharer External PC and enter the DDNS URL address or, the Internet IP address of the IP sharer in the address bar for connecting to SNT-1010.
ex) http://mfffe42.websamsung.net
 - For the DDNS URL address, refer to "To check the DDNS address" on page 41.

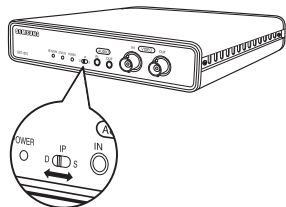
Note ■ A remote PC in an external Internet out of the LAN network may not be able to connect to SNT-1010 installed in the intranet if the port-forwarding is not properly set or a firewall is set. In this case, to resolve the problem, contact your network administrator.

Connect SNT-1010 directly to a DHCP-based xDSL/ Cable modem

This is enabled for a modem using DHCP.



[STEP 1] To connect SNT-1010 to a xDSL/Cable modem



1. Position the IP selection switch to D (Dynamic IP).
2. Connect SNT-1010 to the modem using the Direct LAN Cable (UTP cable).
 - SNT-1010 does not come with the Direct LAN cable. You have to purchase it separately.
3. Connect SNT-1010 to the power source.
4. When SNT-1010 starts, it automatically obtains an IP address from the modem.
5. As the IP Installer does not work in the Internet, you can't use the IP Installer for this purpose.

[STEP 2] To connect to SNT-1010 from a remote PC

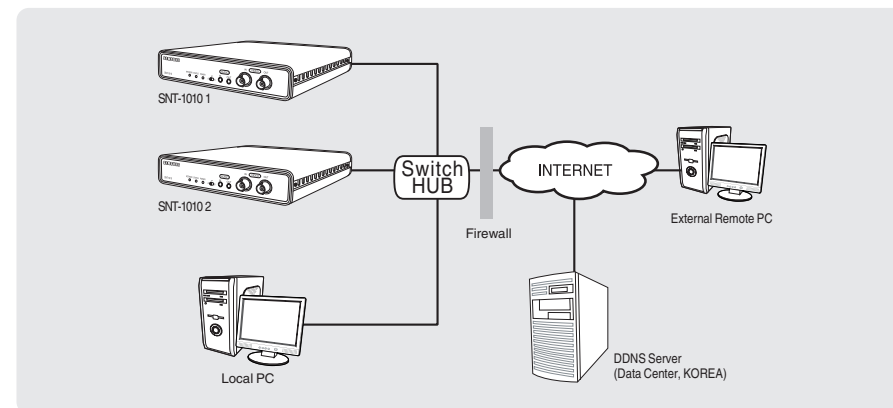
- 1 Launch an Internet browser on the remote PC.
- 2 Enter the DDNS URL address in the address bar of the browser for connecting to SNT-1010.
ex) <http://mffe42.websamsung.net>
 - For the DDNS URL address, refer to "To check the DDNS address" on page 41.



Note

- To check if your xDSL / Cable modem uses DHCP, contact your Internet Service Provider.

Connect SNT-1010 directly to local area networking



[STEP 1] To connect SNT-1010 to local area networking

1. Position the IP selection switch to S (Static IP).
2. SNT-1010 is connected to the switching hub using the Direct LAN Cable (UTP cable).
3. Connect SNT-1010 to the power source.
4. Use the IP installer on your local PC to configure the <IP address>, <Subnet Mask>, <Gateway> and <Port> settings.
 - For the value for each of the fields, contact your network administrator.
 - For how to use the IP installer, refer to "Static IP Setting" on page 33.

[STEP 2] To connect to SNT-1010 from a local PC in the LAN

- 1 Launch an Internet browser on the local PC.
- 2 Enter the IP address of SNT-1010 in the address bar of the browser.

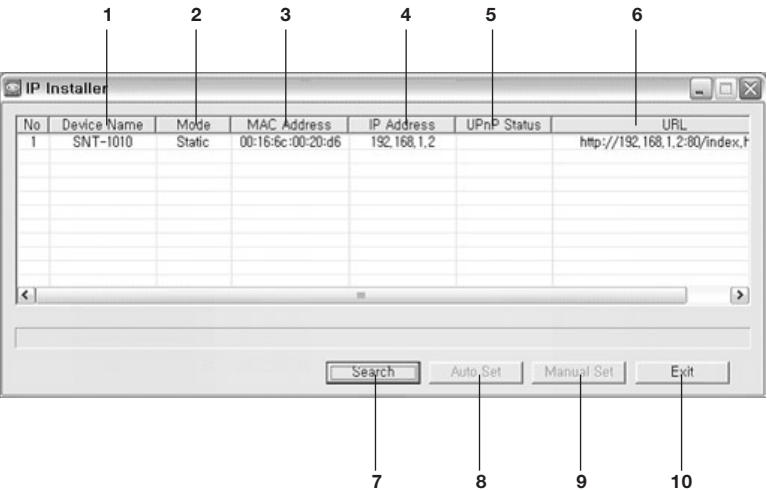


Note

- A remote PC in an external Internet out of the LAN network may not be able to connect to SNT-1010 installed in the intranet if the port-forwarding is not properly set or a firewall is set. In this case, to resolve the problem, contact your network administrator.

Searching for SNT-1010 (Continued)

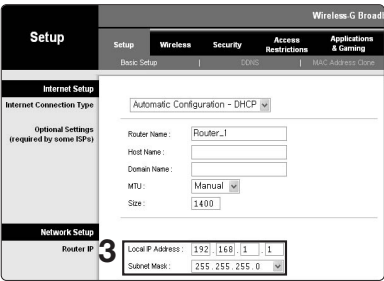
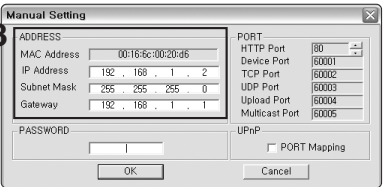
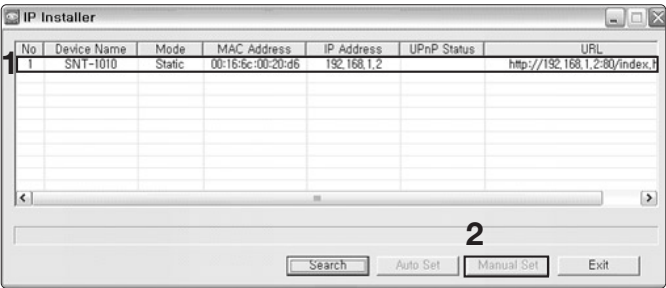
IP Installer screen layout



- 1 <Device Name> : Model name of SNT-1010.
- 2 <Mode> : Shows the current selection among from <Static>and <Dynamic>.
- 3 <Mac Address> : The Mac address of the network interface of SNT-1010 that is printed on the rear panel.
- 4 <IP Address> : The IP address of SNT-1010.(Default setting is '192.168.1.200'.)
- 5 <UPnP Status> : The SNT-1010 on which the automatic port mapping (port forwarding) is done using UPNP is marked with <Success>.
- 6 <URL> : This is an DDNS URL address that can be used to connect from an external Internet. However, if the DDNS fails to register with your PC, it will be displayed as an IP address of SNT-1010.
- 7 [Search] Button : Searches for SNT-1010 connected to the current network.
- 8 [Auto Set] Button : Sets up the SNT-1010 network settings automatically using the <IP Installer>.
- 9 [Manual Set] Button : Allows the user to set up the SNT-1010 network settings manually.
- 10 [Exit] Button : Exits the IP Installer program.

Manual Network Setting

- Before You Start!**
- Run the <IP Installer.exe> program and display the found SNT-1010 list on the screen.
 - For the initial run,the [Auto Set] and [Manual Set] button are all disabled.



- 1 Select an SNT-1010 you want from the SNT-1010 list.**
 - Confirm the MAC Address of the SNT-1010 on its rear panel.
 - The [Auto Set] and [Manual Set] button are activated.
- 2 Click the [Manual Set] button.**
 - The Manual Set window appears.
 - The <IP Address>, <Subnet Mask>, <Gateway> and <HTTP Port> values of the SNT-1010 are displayed in their default values.
 - The password is set to 4321 by factory default.
- 3 Set up the IP related settings in the <ADDRESS>field.**
 - <MAC Address> : The MAC Address printed on the SNT-1010 rear panel is automatically displayed. No additional setting is required.

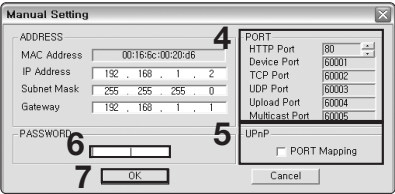
<If using an IP sharer>

 - <IP Address> : Set it according to the private IP address range provided by the IP Sharer. ex) 192.168.1.2~255, 192.168.0.2~255, or 192.168.XXX.2~255
 - <Subnet Mask> : The IP Sharer's <Subnet Mask>becomes SNT- 1010's <Subnet Mask>value.
 - <Gateway> : The IP Sharer's <LAN IP Address>becomes SNT-1010's <Gateway>value.

<If not using an IP sharer>

 - For the <IP Address>, <Gateway> and <Subnet Mask> settings, contact your network administrator.

Manual Network Setting (Continued)



Note ■ You can't change the port numbers of Device, TCP, UDP, Upload and Multicast, which are automatically changed according to the increase/decrease of the port number of HTTP.

4 In the <PORT>fields,set up port numbers.

- <HTTP Port> : A HTTP port used to connect to SNT-1010 using the Internet browser. The default value is 80. The HPPT port value can be changed by using the up/down button to the right. The HTTP port number starts with 80 and increases/decreases to 10000, 10006, 10012...
- <Device Port> : A port used to control video transmission. The default value is 60001(TCP).
- <TCP Port> : A port used to transfer video using TCP protocol.The default value is 60002(TCP).
- <UDP Port> : A port used to transfer video using UDP protocol.The default value is 60003(UDP).
- <Upload Port> : A port used to upgrade software. The default value is 60004(TCP).
- <Multicast Port> : Shows UDP port set for video transmission using UDP Multicast. The default value is 60005(UDP).

5 If SNT-1010 is installed on an IP sharer, you can use the UPNP Port Mapping function.

- <PORT Mapping> : If SNT-1010 is installed on an IP sharer supporting "UPNP Automatic Portmapping (Port Forwarding)", the SNT-1010 automatically performs the port mapping using UPNP when the "Port Mapping" option is selected.

6 Enter your password.

- The default password is **4321**.
- The password is the SNT-1010 login password of the root user.

7 Click the [OK] button.

- The manual network setting is finished.

8 The SNT-1010 is set to the manually entered IP and is restarted.

If more than one SNT-1010 are connected to an IP Sharer
set the IP and port Settings for SNT-1010's differently.

Example)

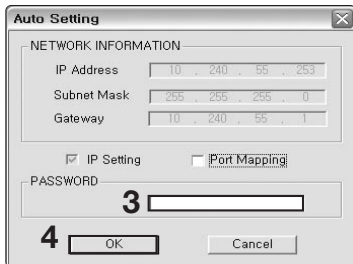
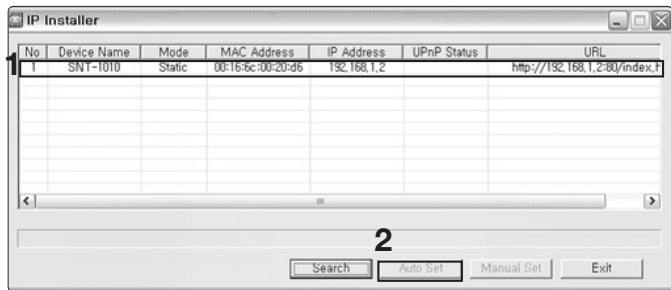
Items		1st SNT-1010	2st SNT-1010
IP Related Items	IP Address	192.168.1.200	192.168.1.201
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
PORT Related Items	HTTP Port	80	10000
	Device Port	60001	10001
	TCP Port	60002	10002
	UDP Port	60003	10003
	Upload Port	60004	10004
	Multicast Port	60005	10005

Note ■ If <HTTP Port>is not set to 80,the user must specify the port number as well as the IP address in the Address input box of an Internet browser to connect to SNT-1010.
Example) http://IP Address : HTTP Port e.g.http://192.168.1.201: 81

Automatic Network Setting

Before You Start!

- Run the <IP Installer.exe>program and display the found SNT-1010 list on the screen.
- In the initial run, the [Auto Set] and [Manual Set] button are all disabled.



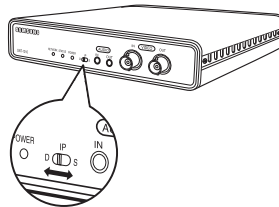
- 1 Select an SNT-1010 you want from the SNT-1010 list.**
 - Confirm the MAC Address of the SNT-1010 on its rear panel.
 - The [Auto Set] and [Manual Set] button are activated.
- 2 Click the [Auto Set] button.**
 - The Auto Set window appears.
 - The automatically found <IP Address>, <Subnet Mask>and <Gate Way> are displayed.
- 3 If SNT-1010 is installed on an IP sharer, you can use the UPNP Port Mapping function.**
- 4 Enter your password.**
 - The password is the SNT-1010 login password of the root user.
 - The default password is 4321.
- 5 Click the [OK] button.**
 - The automatic network setting is finished.
- 6 SNT-1010 automatically restarts when the network setting is complete.**

Dynamic IP Setting

Examples of using Dynamic IP

- If SNT-1010 is installed on an IP sharer and obtains an IP using DHCP
- If sNT-1010 is connected directly to a xDSL/Cable modem using DHCP
- If an IP is allocated by the internal DHCP server in local area networking

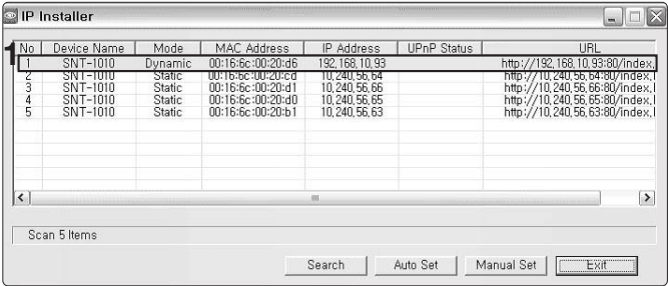
To set SNT-1010 to Dynamic IP mode



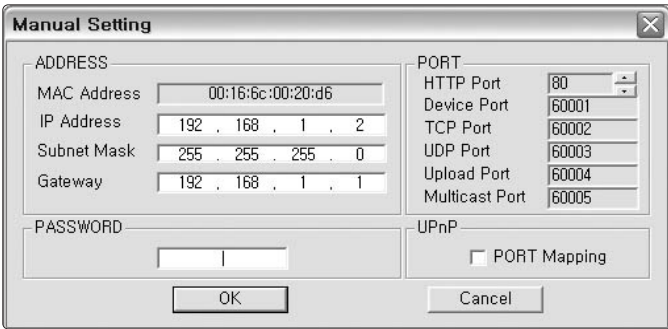
1. Position the IP selection switch to D (Dynamic IP).
2. Connect SNT-1010 to the IP sharer or modem using the Direct LAN Cable (UTP cable).
 - SNT-1010 does not come with the Direct LAN cable. You have to purchase it separately.
3. Connect SNT-1010 to the power source.
4. When SNT-1010 starts, it automatically obtains an IP address from the IP sharer or modem.
5. If you use an IP sharer, you can check the dynamic IP address from the IP sharer by using the IP installer on your PC.

Dynamic IP Setting (Continued)

Dynamic IP Check



- When you run the IP Installer on your local PC, the SNT-1010 with a dynamic IP allocated is listed.
- Select the SNT-1010 in the list and click the “Manual Set” button to check the SNT-1010 for the current dynamic IP.

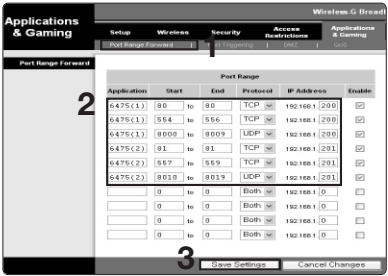


- In this case, the ADDRESS field is automatically filled and you can't change it. However, you can still change the port and UPNP settings.

Port Forwarding (Port Mapping) Setting

With SNT-1010 installed on an IP sharer, you must set the port forwarding for the IP sharer before an IP sharer external remote PC can connect to the IP sharer internal SNT-1010.

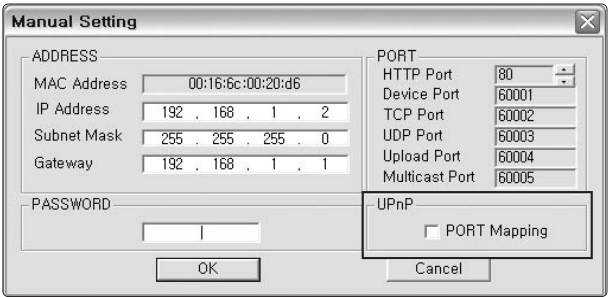
Manual Port Forwarding



- 1 Click <Applications & Gaming> → <Port Range Forward> from the Settings menu of the IP Sharer.
 - For the menu location and the setting of Port Forwarding, refer to the IP sharer's documentation.
- 2 Select the <TCP> and <UDP Port> for each SNT-1010 connected to the IP Sharer.
 - Each of the port numbers for the IP Sharer must be according to those presented in <BASIC CONFIGURATION> → <IP> of the SETUP screen of SNT-1010.
- 3 If the setting is complete, click the [Save Settings] button.
 - The changes are saved.



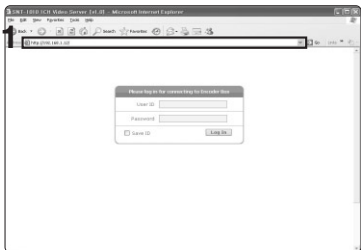
Automatic Port Forwarding using UPNP



- You can use the UPNP Port Mapping function of the IP installer to automatically set the port forwarding for the IP sharer. However, this is enabled only if the IP sharer supports the UPNP function.

Connecting to SNT-1010 (Continued)

To connect to SNT-1010



■ General

- ▶ Run an Internet browser.
- ▶ Enter the IP address for SNT-1010 in the Address input box.
Example) IP Address : 192.168.1.200 →
http://192.168.1.200
- The Login screen appears.

■ If the HTTP port number is not 80

- ▶ Run an Internet browser.
- ▶ Enter the IP address and the HTTP port number for SNT-1010 in the Address input box.
Example) IP Address : 192.168.1.200:Port Number(8080)
→ http://192.168.1.200:8080
- The Login screen appears.

■ Connection using URL

- ▶ Run an Internet browser.
- ▶ Enter the DDNS URL for SNT-1010 in the Address input box.
Example) URL Address : http://mff00a0.websamsung.net
- The Login screen appears.

■ Connection using URL (If the HTTP port number is not 80)

- ▶ Run an Internet browser.
- ▶ Enter the DDNS URL and the HTTP port number for SNT-1010 in the Address input box.
Example)
URL Address : http://mff00a0.websamsung.net:Port Number(8080)
→ http://mff00a0.websamsung.net:8080
- The Login screen appears.

To check the DDNS address

- A DDNS address consists of <One among from lower-case alphabet characters of e,m and p> + <Last 6 digits of the MAC address> + <websamsung.net>.
- The lower-case alphabet letter is represented as <e> if the first 6 digits of the MAC address is <00:00:f0>, <m> if <00:16:6c>, and <p> if <00:68:36>.

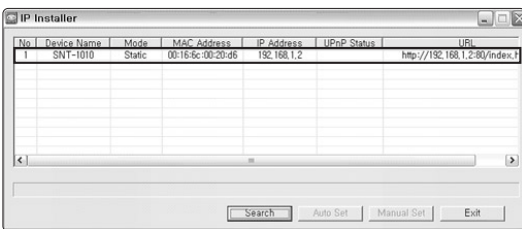
Example) - If the MAC address of SNT-1010 is 00 : 00 : f0 : ff : fe : 42 :
e + fffe42 + websamsung.net = efffe42.websamsung.net
- If the MAC address of SNT-1010 is 00 : 16 : 6c : ff : fe : 42 :
m + fffe42 + websamsung.net = mfffe42.websamsung.net
- If the MAC address of SNT-1010 is 00 : 68 : 36 : ff : fe : 42 :
p + fffe42 + websamsung.net = pfffe42.websamsung.net



Notice

- The IP and MAC addresses are used in this manual for illustrative purposes only. Therefore, you must not enter the addresses presented in this manual when you setting your equipment.

To connect to SNT-1010 using the IP Installer program



Double-click an SNT-1010 you want from the search result screen.

- The Login screen appears.
- If the ActiveX window appears, install it referring to page 43.

Connecting to SNT-1010 (Continued)

To login

For the first login, the user ID is **root** and password is **4321**.

1 Type **root** in the <User ID> input box.

2 Type **4321** in the <Password> input box.

- If you have changed the old password, type the new password here.

3 Click the [Log In] button.

- When the login is complete, the SNT-1010 Viewer screen appears.



Note

- For the security purposes, make sure to change the password by clicking <BASIC CONFIGURATION> → <USER> in the SETUP screen. The administrator ID, **root** is fixed and cannot be changed.
- If you select the <Save ID> check box, the user ID is saved and will be entered automatically in the following logins.



Notice

- If you have not installed DirectX 8.1 or later on your Windows 2000-based PC and try to log in, you may not see any video image on the screen.
- You are required to install DirectX 8.1 or later on your Windows-based PC.
- You can download DirectX for free at <http://www.microsoft.com/download>

Installing ActiveX

If you connect the SNT-101 to the Internet and configure the network settings, you can monitor the picture of the connected camera in real-time.

For Windows 2000/Windows XP



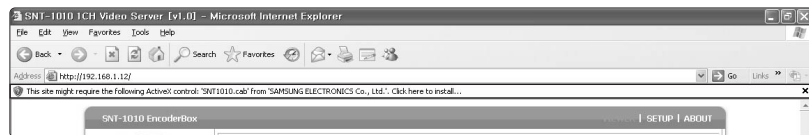
If the Security Warning window appears, click the Yes button.



Note

- If you have not installed DirectX 8.1 or later on your Windows 2000-based PC and try to log in, you may not see any video image on the screen.

For Windows XP Service Pack 2



1 If the following screen appears, click the Install button.

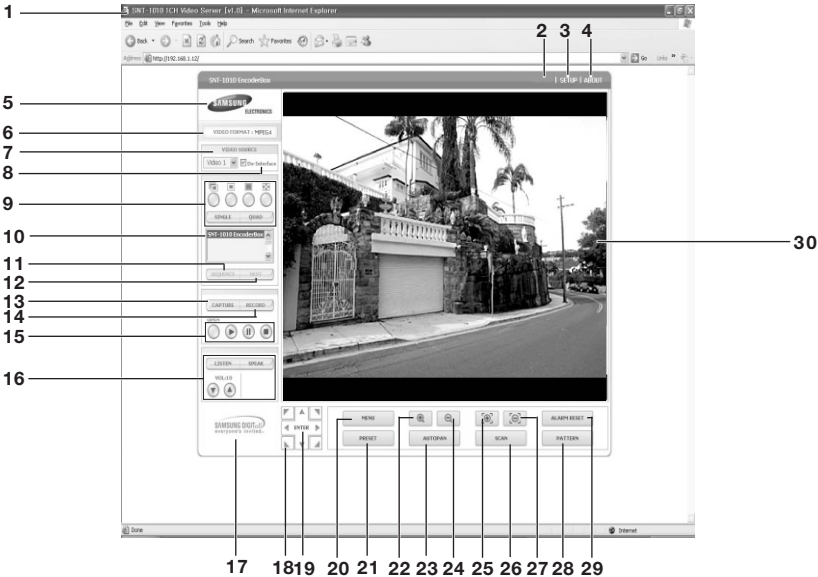
2 Click the <Install ActiveX Control>.

3 If the Security Warning window appears, click the [Install] button.

Using the Viewer Screen

If you connect to an SNT-1010, the following Viewer screen appears.

Main Screen Layout



- | | | |
|---|--|-----------------------|
| 1 Version Information:The version number of the installed Viewer ActiveX Control. | 10 SNT-1010 List | 20 MENU Button |
| 2 VIEWER Tab | 11 Continuous View Button | 21 PRESET Button |
| 3 SETUP Tab | 12 Sequential View Button | 22 ZOOM IN Button |
| 4 ABOUT Tab | 13 CAPTURE Button | 23 AUTOPAN Button |
| 5 Logo | 14 RECORD Button | 24 ZOOM OUT Button |
| 6 Video Format | 15 Play Control Buttons [OPEN] [PLAY] [PAUSE] [STOP] Buttons | 25 Focus Near Button |
| 7 Video Source | 16 Audio Buttons [LISTEN] [SPEAK] [VOL ▲▼] Button | 26 SCAN Button |
| 8 De-Interlace | 17 Banner Image | 27 Focus Far Button |
| 9 Screen Size & Partition Buttons [] [] [] [] [] [] Buttons [SINGLE] [QUAD] Buttons | 18 Direction Buttons | 28 PATTERN Button |
| | 19 ENTER Button | 29 ALARM RESET Button |
| | | 30 Viewer Screen |









Note ■ The viewer screen will appear according to the video size set in the <BASIC CONFIGURATION> → <VIDEO> of the SETUP screen.

<D1>: 720 x 480(NTSC), 720 x 576 (PAL)	<CIF>: 352 x 240(NTSC), 352 x 288 (PAL)
<VGA>: 640 x 480(NTSC), 640 x 576 (PAL)	<QCIF>: 176 x 112(NTSC), 176 x 144 (PAL)

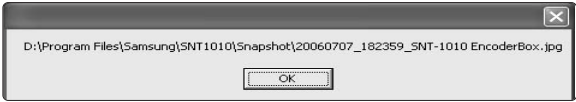
Viewer Screen Buttons and Functions

Button	Function and Description
VIEWER	Moves to the main screen
SETUP	Moves to the SETUP screen.
ABOUT	You can view information, version, manufacturer, etc.
	<ul style="list-style-type: none">■ A logo image set in the <LAYOUT> → <SCREEN LOOK> of the SETUP screen appears here.■ If a logo link is set, you can open the linked site by clicking it.■ The default logo is Samsung Electronics logo.
VIDEO FORMAT : MJPEG	Shows the current video codec information among from <MJPEG> and <MPEG4>.
VIDEO SOURCE Video 1 <input checked="" type="checkbox"/> De-Interlace	<ul style="list-style-type: none">■ SNT-1010 provides Dual Codec function so that it can apply 2 codecs to a video source simultaneously and transmit it.■ You can change the setting in the <BASIC CONFIGURATION> → <VIDEO> of the SETUP screen. Page 50■ If you check the <De-Interlace> option, you can enjoy a clearer image on the screen. If you deselect <De-Interlace>, the still image can be a bit clearer but the moving image may be cracked or overlapped on the border of an object.
	<ul style="list-style-type: none">■ You can select a screen size from the <□>, <□>, <□> and <□>.■ <□> : Displays the video in its original size.■ <□> : Zooms-out the video size to its 1/4 and displays it in the center.■ <□> : Displays the video fitting to the viewer screen size. The aspect ratio of the video may be different.■ <□> : You can see the image in full screen. To exit the mode, press the ESC key on the keyboard. The video display returns to its previous size.
SINGLE QUAD	<ul style="list-style-type: none">■ You can select a screen split option among from the <SINGLE> and <QUAD>.■ <SINGLE>: Displays the video in its original size.■ <QUAD> : Splits the screen into 4 and displays 4 videos on the screen. In the <QUAD> mode, the <□> mode is not supported.
SNT-1010 Encoder	<ul style="list-style-type: none">■ Lists connected SNT-1010's. If you select an SNT-1010, the corresponding video appears.■ On the first row, the login SNT-1010 appears.■ From the second row on, additionally connected SNT-1010's are displayed.■ You can additionally register an SNT-1010 in <BASIC CONFIGURATION> → <EXTERNAL SNT-1010> of the SETUP screen.■ The selected SNT-1010 is indicated by inversed font color.

Viewer Screen Buttons and Functions (Continued)

Button	Function and Description
	<ul style="list-style-type: none">■ This function is available when multiple SNT-1010's are connected.■ Each video channel of the connected SNT-1010's is displayed sequentially.■ This function is not available while playing a recorded file.■ If the screen size is <SINGLE>, this function is available only when more than 1 SNT-1010 are in the <SNT-1010 List>.■ If the screen size is <QUAD>, this function is available only when more than 4 SNT-1010 are in the <SNT-1010 List>.
	<ul style="list-style-type: none">■ If the screen size is <SINGLE>, each video channel is displayed by turns.■ If the screen size is <QUAD>, 4 videos channels are displayed by turns.
	<p>Captures the current picture on the screen and saves it as a .jpg or .bmp image file.</p> <p>► Page 47</p>
	<p>Saves the current video as a .cam video file. ► Page 47</p>
	<ul style="list-style-type: none">■ You can Open/Play/Pause/Stop a saved file.■ If the file size is big, the loading time might be long
	<ul style="list-style-type: none">■ If you click the [LISTEN] button, the speaker icon appears on the screen and you can hear the audio from the current video source.■ If you click the [SPEAK] button, you can transmit your voice to the SNT-1010 using a microphone.■ If multiple users are connected to an SNT-1010, only one user can send his voice at a time.■ You can control the volume of the current video by using the [VOL ▲▼] buttons in 10 steps.
	<ul style="list-style-type: none">■ A banner image set in the <LAYOUT> → <SCREEN LOOK> of the SETUP screen appears here.■ If a banner link is set, you can open the linked site by clicking it.■ Initially, no banner image is set.
	<p>You can use camera functions such as lens direction control, menu setting, preset, etc.</p> <p>► Page 48</p>

To Capture a Video



- 1 At a desired scene, click the [CAPTURE] button.
 - The capture confirmation window appears.
- 2 Click [OK].
 - The captured screen image is saved in the specified folder path.



Note

- The default saving path is "C:\Program Files\Samsung\SNT-1010\Snapshot".
- To change the saving path, click <BASIC CONFIGURATION> → <LOCAL SAVE PATH> in the SETUP screen.
- The file is automatically named as follows: "YYMMDD_HHMMSS_device name_EncoderID.extension".
Example) 20060207_121015_SNT-1010_EncoderBox.jpg
- Capturing a screen is available even during a recording. In this case, the <Overlay> is also captured together.

To Record a Video



- 1 At desired scene, click the [RECORD] button.
 - On the viewer screen, <REC> indicator appears and the recording is started.
- 2 To stop a recording, click the [RECORD] button once again.
 - The captured screen image is saved in the specified saving path.












Note

- The default saving path is "C : \Program Files\Samsung\SNT-1010\VideoClip".
- To change the saving path, click <BASIC CONFIGURATION> → <LOCAL SAVE PATH> in the SETUP screen.
- The file is automatically named as follows: "YYMMDD_HHMMSS_device name_EncoderID. extension".
Example) 20060207_121015_SNT-1010_EncoderBox.cam
- The maximum recording time is 10 minutes.If a recording exceeds the time limit, the recording is automatically terminated and the announcement message appears.
- The user can select and record a camera video and stop it.

Viewer Screen Buttons and Functions (Continued)


To use the camera related functions

These functions are activated only if they are supported by the camera and are the same as the camera settings.

- 
 - **Moving lens direction and selecting a menu**
 - You can adjust the camera lens direction using the 8 direction buttons.
 - While you are pressing the button, the camera moves and if you release the button, the camera stops.
 - ▲▼◀▶ buttons are used to navigate through the menu in the camera menu screen.
 - [ENTER] button is used to select a menu item in the camera menu screen.
- 
 - **Entering Camera Menu**
 - The camera menu screen appears.
- 
 - **Zoom Function**
 - Click the [ZOOM IN] button to zoom-in.
 - Click the [ZOOM OUT] button to zoom-out.
- 
 - **Focus Function**
 - Press the [Focus Near] button to adjust the focus nearer.
 - Press the [Focus Far] button to adjust the focus farther.
- 
 - **Preset Function**
 - Moves the lens direction to a preset direction.
- 
 - **Autopan Function**
 - Moves the camera lens direction between 2 points set for the camera.
- 
 - **Scan Function**
 - Moves the camera lens direction between 2 preset points of the camera.
- 
 - **Alarm Reset Function**
 - Returns the current alarm settings to the default.
- 
 - **Pattern Function**
 - You can set camera various movement patterns such as zoom, move, etc. so that a camera automatically moves according to the pattern.

Power Pan and Tilt Function

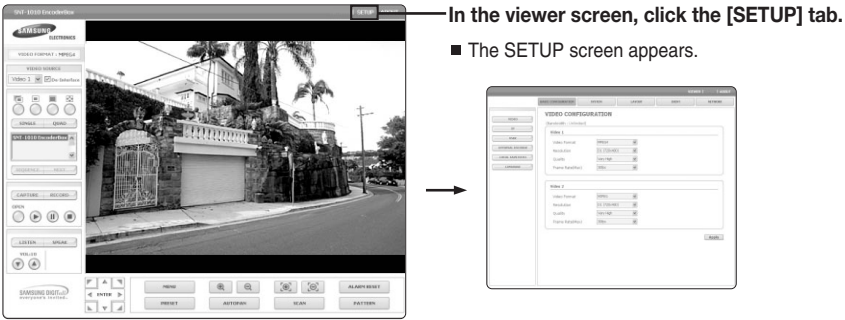
- This function works only in a camera supporting the power pan-and-tilt. Ex) Samsung SCC-6475
- If you click over a point you want, this function moves the camera so that the point comes to the center of the screen.
- If you drag the mouse downward while holding down the left mouse button, the video is zoomed in while you drag the mouse upward, the screen is zoomed out.

- 

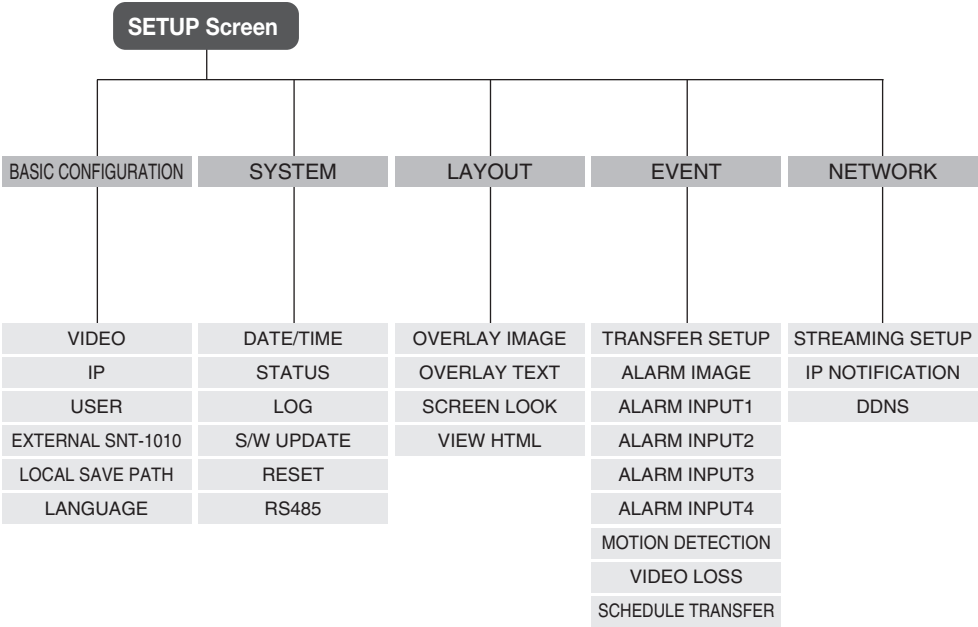
Notice
- The Focus function is available only in Manual Focus mode.
 - The Power Pan & Tilt function can make angular difference, depending on the zooming level of the camera.

Setting SNT-1010

You can set various functions such as Basic Setting, System, Layout, etc.



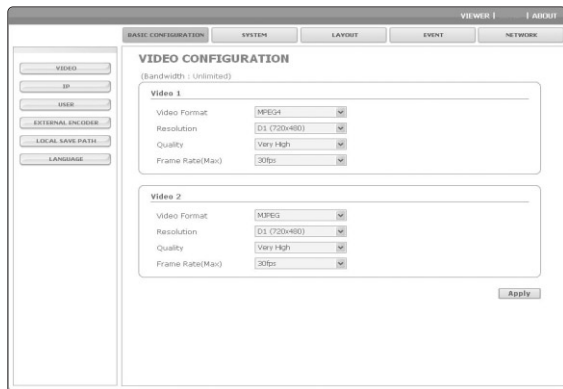
SETUP Screen Layout



Basic Configuration

Setting Video

You can set the video format, size, resolution, frames per second for <Video1> and <Video2>.



Click <BASIC CONFIGURATION> → <VIDEO>.

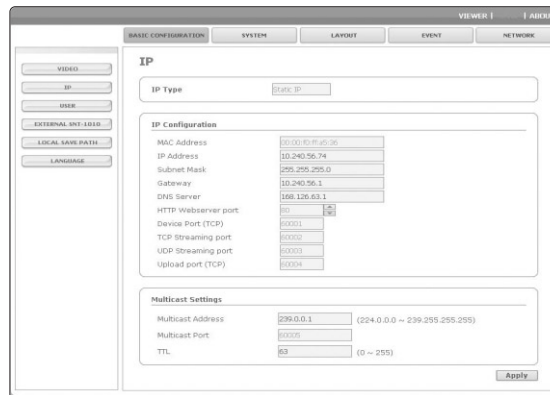
- The VIDEO CONFIGURATION window appears.

To complete the video setting, click the [Apply] button.

- The settings are saved.

- <Video Format> : Select a video format from <MPEG4> and <MJPEG>.
 - To transmit a video when an event occurs, either <Video1> or <Video2> must be set to <MJPEG>.
 - To use the motion detection function, either <Video1> or <Video2> must be set to <MPEG4>.
 Example) To set <Video1> for the motion detection and to send a video from <Video2> to an e-mail or FTP when an event occurs, set the <Video1> to <MPEG4> and the <Video2> to <MJPEG>.
- <Resolution> : Select a video size among from <D1>, <VGA>, <CIF> and <QCIF>.
 - <D1>: 720 x 480 (NTSC), 720 x 576 (PAL)
 - <VGA>: 640 x 480 (NTSC), 640 x 576 (PAL)
 - <CIF>: 352 x 240 (NTSC), 352 x 288 (PAL)
 - <QCIF>: 176 x 112 (NTSC), 176 x 144 (PAL)
- <Quality>: Select a resolution from <Very High>, <High>, <Normal>, <Low> and <Very Low>.
- <Frame Rate(Max)> : Shows the maximum number of frames per second depending on the Bandwidth configured in <NETWORK> → <STREAMING SETUP> → <Streaming Control>. If it is set to <Unlimited>, you can select one from <30 fps>, <15 fps>, <7.5 fps>, <3 fps> and <1 fps>.

To setup IP settings



Click <BASIC CONFIGURATION> → <IP>.

- IP Setting window appears.

To complete the setting, click the [Apply] button.

- The settings are saved and the system is restarted.
- The currently opened web browser is closed.



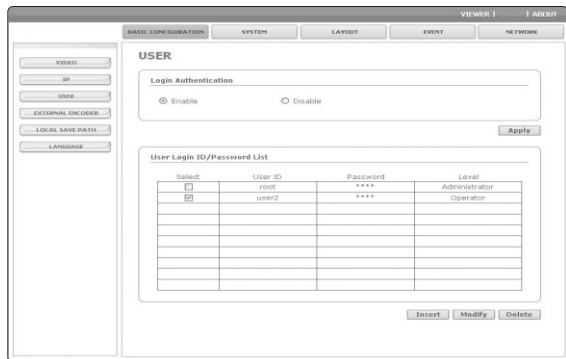
Note

- If more than an SNT-1010 are connected to an IP Sharer, set the IP and port Settings for SNT-1010's differently. ▶ 35 Page

- <IP Type> : Shows the current SNT-1010 IP setting type.
 - To change the IP setting type, slide the [IP select switch] on the front panel to <D> or <S> position according to your needs.
- <IP Configuration> : Allows setting SNT-1010 IP and port related settings.
 - <MAC Address> : Shows the Ethernet MAC address. Since this value is used to create a DDNS address, confirm the value.
 - <IP Address> : Shows the currently configured IP address. If the <IP Type> is set to <Static IP>, you can change the IP address.
 - <Subnet Mask> : Shows the <Subnet Mask> for the configured IP address.
 - <Gateway> : Shows the <Gateway> address for the configured IP address.
 - <DNS Server> : Shows the IP address of the DNS (Domain Name Service) server.
 - <HTTP Webserver Port> : Shows the HTTP port used to connect to the SNT-1010 using the web browser. The default port number is 80(TCP).
 - <Device Port(TCP)> : A port used to control video transmission. The default value is 60001(TCP).
 - <TCP Streaming Port> : A port used to transfer video using the TCP protocols. The default value is 60002(TCP).
 - <UDP Streaming Port> : A port used to transfer video using the UDP multicast protocols. The default value is 60003(UDP).
 - <Upload Port(TCP)> : A port used to upgrade software. Default value is 60004(TCP).
- <Multicast Settings> : To transmit a video using UDP Multicast, you can set the IP address, port and TTL.
 - <Multicast Address> : Shows IP address set for video transmission using UDP Multicast. The default value is 239.0.0.1. It is recommended to set it to between 224.0.0.0 and 239.255.255.255.
 - <Multicast Port> : Shows UDP port set for video transmission using UDP Multicast. The default value is 60005(UDP).
 - <TTL> : TTL stands for "Time To Live" that allows you to set the number of routers so that the packet can pass through. Each router decrease the TTL value one by one when a packet passes it through. If the TTL value reaches 0, the packet cannot pass through a router. The default value is 63. It is recommended to set it to between 0 and 255.

Basic Configuration (Continued)

To setup users



Click **<BASIC CONFIGURATION>**
→ **<USER>**.

- The USER window appears.

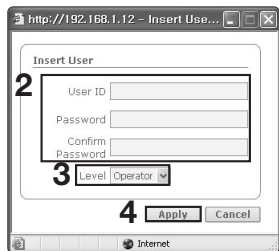
■<Login Authentication> : You can determine whether to require login authentication for users.

- If it is set to <Enable>, the users can connect to the system through login authentication, while it is set to <Disable>, the users can connect to the system without login authentication. However, users connected to the system without login have USER permission.
- When the setting is complete, click the [Apply] button.

■<User Login ID/Password List> : Shows user ID, password and level (permissions) in a list.

- You can register up to 10 users.
- <Administrator> cannot be deleted or added. In addition, the default administrator ID is **root** and you can change the password only.

To register a user



1 In the USER window, click the [Insert] button.

- The <Insert User> window appears.

2 Enter user ID and password.

- For the ID and password, up to 19 alphanumeric and some special characters are allowed.

3 Select the user permission.

- Select a user permission for the new user from the <Operator> and <User> in the Level field.

4 Click the [Apply] button.

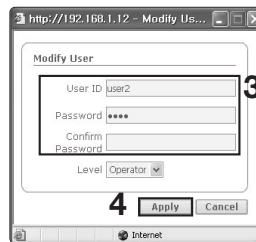
- The user registration is completed.



Notice!

- You cannot register a duplicated user ID.
- You can register **root** or **guest** user ID.

To modify a registered user account



1 Select the <Select> check box of a user account to be modified in the USER window.

2 Click the [Modify] button in the USER window.

- The <Modify User> window appears.

3 In the window, modify ID, password or user level of the user account.

4 Click the [Apply] button.

- Modifying a registered user is complete.

To delete a registered user account

1 Select the <Select> check box of a user account to be deleted in the USER window.

2 Click the [Delete] button in the USER window.

- Deleting a registered user is complete.



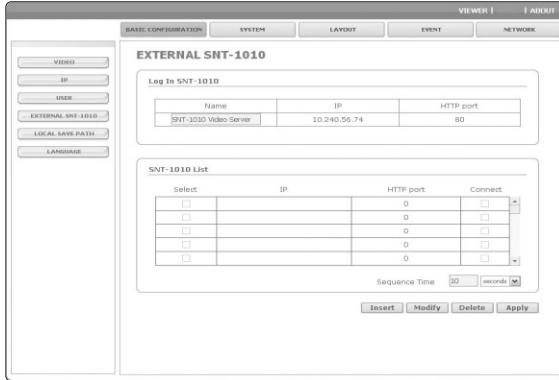
Note

About User Level

- Administrator : The Administrator can use all functions and change the settings.
- Operator : The Operator can use all functions except setting functions.
- User : The User can monitor video only.
- Guest : The **guest** can login by typing **guest** for both ID and password and can use simple monitoring function only.

Basic Configuration (Continued)

To setup an external SNT-1010



Click **<BASIC CONFIGURATION>**
→ **<EXTERNAL SNT-1010>**.

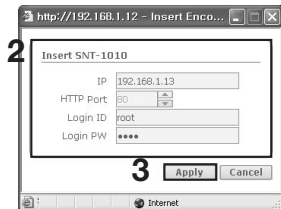
- The EXTERNAL SNT-1010 window appears.

To complete the setting, click the **[Apply]** button.

- The settings are saved.

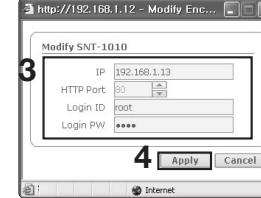
- **<Log In SNT-1010>** : Shows the Name, IP and HTTP Port of the currently logged-in SNT-1010. You can change the SNT-1010 name.
- **<SNT-1010 List>** : Shows the list of external SNT-1010's added by the user. You can add up to 30 external SNT-1010. If you select the **<Connect>** check box, the selected SNT-1010 is connected and appears in the SNT-1010 list in the VIEWER screen.
- **<Sequence Time>** : Determines the screen transition time when the **[SEQUENCE]** button in the View screen is pressed. If you select **<seconds>** in the combo box, you can set the time from 10 to 3540 seconds. If you select **<minutes>**, you can set the time from 1 to 59 minutes.

To register an SNT-1010



- 1 In the EXTERNAL SNT-1010 window, click the **[Insert]** button.
■ The **<Insert SNT-1010>** window appears.
- 2 Enter the IP, HTTP Port, Login ID, Login PW (Password) for the SNT-1010.
- 3 Click the **[Apply]** button.
■ SNT-1010 registration is complete.

To modify a registered SNT-1010



- 1 Select the **<Select>** check box of an SNT-1010 to be modified in the EXTERNAL SNT-1010 window.
- 2 In the EXTERNAL SNT-1010 window, click the **[Modify]** button.
■ The **<Modify SNT-1010>** window appears.
- 3 Modify the IP, HTTP Port, Login ID or Login PW.
- 4 Click **[Apply]**.
■ Modifying a registered SNT-1010 is complete.

To delete a registered SNT-1010

- 1 Select the **<Select>** check box of an SNT-1010 to be deleted in the EXTERNAL SNT-1010 window.
- 2 In the EXTERNAL SNT-1010 window, click the **[Delete]** button.
■ Deleting a registered SNT-1010 is complete.

Basic Configuration (Continued)

To set the record/capture saving path



Click <BASIC CONFIGURATION> → <LOCAL SAVE PATH>.

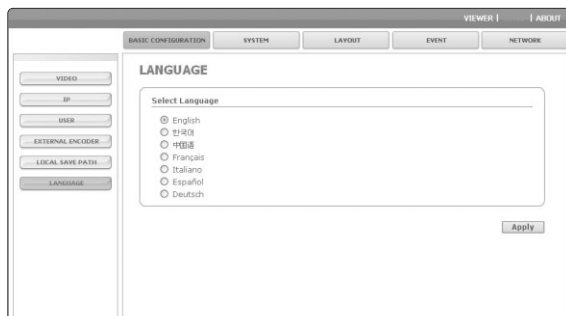
- The LOCAL SAVE PATH window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

- <Record> : Determines the saving path of the recorded file.
- <Screen Capture> : Determines the capture file saving path. You can select either <JPEG> or <BMP> file format to save a captured file. If you select the <Include OSD> check box, the screen is captured including on-screen information including image, text, date, time.

To set the display language



Click <BASIC CONFIGURATION> → <LANGUAGE>.

- The LANGUAGE window appears where you can select a preferred language.
- You can select once from 7 languages (English/Korean/Chinese/French/Italian/Spanish/German).

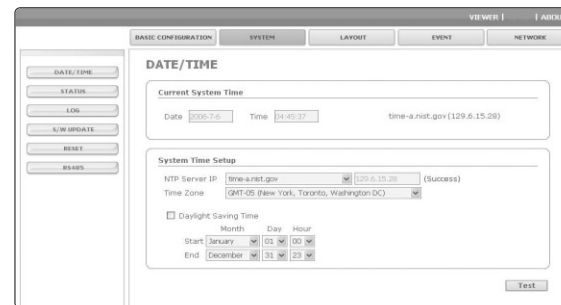
To complete the setting, click the [Apply] button.

- The language has been changed to the selected one.

System Configuration

To setup date and time

You can get the current system time from a NTP server and set the system time.



Click <SYSTEM> → <DATE/TIME>.

- The Date/Time window appears.

- <Current System Time> : Sets the time by synchronizing with the selected NTP server (time server).
- <System Time Setup> : You can select a preferred NTP server address, time zone, and whether to apply daylight saving time.

To setup the system time



- 1 Select one of the NTP server addresses of the <NTP Server IP> list.
 - If you select <Manual>, you can enter the IP address in the right input box manually.
- 2 Select your time zone in the <Time Zone> field.
- 3 To apply daylight saving time, select the <Daylight Saving Time> checkbox.
 - You can change the Start and End Date for daylight saving time.
- 4 Click the [Test] button.
 - The configured system time is applied.
 - The IP address of the set NTP server is displayed.
 - If the setting is succeeded, the <Success> message will appear. Otherwise, <Fail> message will appear.



Note

- The servers listed in the <NTP Server IP> are provided by a public institution and the list may be changed. The <Manual> option allows selecting a time server provided by a private institution.
- If you are using a local network that is not connected to the Internet, NTP server cannot be connected.

System Configuration (Continued)

To check the connection status

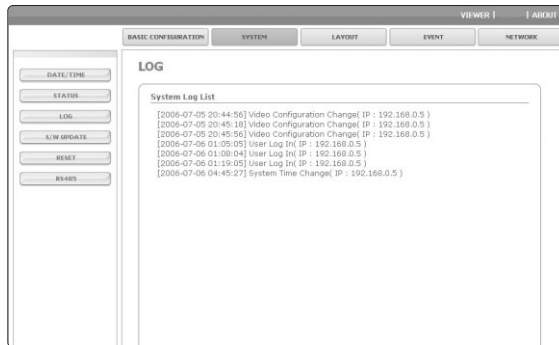


Click <SYSTEM> → <STATUS>.

- The Status window appears showing the connection status.

- <Current Status> : Shows the number of users connected to the current system and the IP addresses of them. The connection status is updated every 5 seconds.

To view the log information



Click <SYSTEM> → <LOG>.

- The Log window appears showing log information.



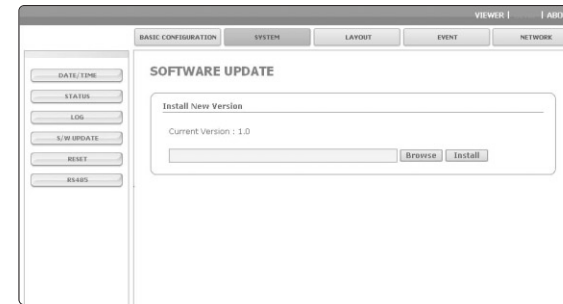
Note

- The log information is initialized when an SNT-1010 is restarted.
- The log information is displayed only when the system time is set.

- <System Log List> : Shows the log information about the system changes along with time and IP address.

- <User Log In>: Shows current SNT-1010 login user.
- <Video Configuration Change> : Shows video setting changes.
- <System Time Change> : Shows time changes.
- <System Start> : Shows time when the SNT-1010 is turned on.

To update the software



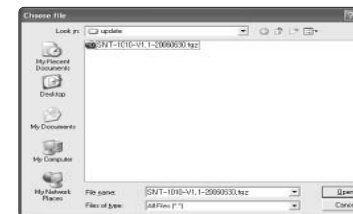
Click <SYSTEM> → <S/W UPDATE>.

- The Software Update window appears.

To download the latest version of the software, visit **Samsung Electronics web site** www.samsung.com.

- The update files are named such as SNT-1010-V1.1-20060531.tgz.
- Software update supports update files that has predetermined file names.
- Do not change the file name except the date (20060531).

To update the software



- 1 In the USER window, click the [Browse] button.
 - The Open File window appears.
- 2 Select an SNT-1010 update file and click the [Open] button.
- 3 In the USER window, click the [Install] button.
 - The file is uncompressed and the software update begins.
 - Software update may take tens of minutes.
 - To cancel an update, click the [Cancel] button.
- 4 When the software update is done, the system will automatically restart.
 - Since the current connection is disconnected, you have to connect to the system again.



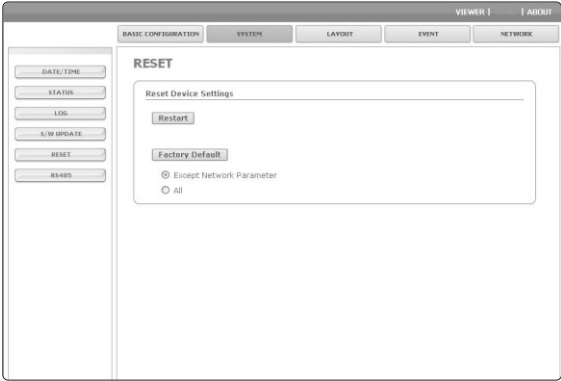
Notice

- Since, if the network is disconnected, the power fails or the PC abnormally operates during a software update, the system may not work afterwards, take care not to cause a problem during an update.

System Configuration (Continued)

To reset the system

If the system abnormally operates or a problem occurs, you can restart or reset the system.



Click **<SYSTEM>** → **<RESET>**.
■ The Reset window appears.

- **<Restart>** : The Reset window appears.
- **<Factory Default>** : Initializes the system settings to the factory settings and then restarts the system.
 - **<Except Network Parameter>** : Initializes the system settings except network settings.
 - **<All>** : Initializes all the system settings. Selecting this option is the same as pressing the [FACTORY RESET] button on the rear panel of the main body.

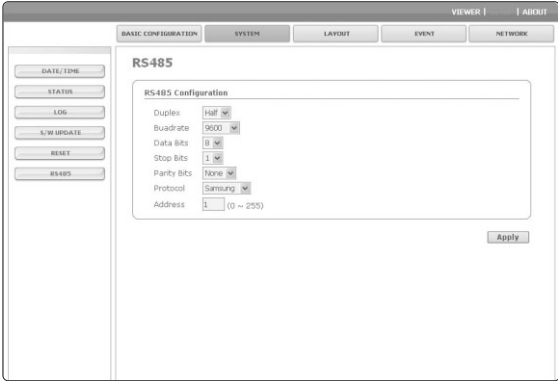


- !

Notice
- After reset and restart, you have to connect to the system again.
 - It takes a few minutes until the system booting is completed. You cannot connect to the system until the system booting is complete.
 - After running **<Factory Default>** → **<All>**, you have to run **<IP Installer.exe>** program and setup network settings such as IP address, Subnet mask, Gateway, etc., to connect to the Internet.

To setup RS485

Setup the RS485 port of the system



Click **<SYSTEM>** → **<RS485>**.
■ The RS485 window appears.

To complete the setting, click the [Apply] button.
■ The settings are saved.

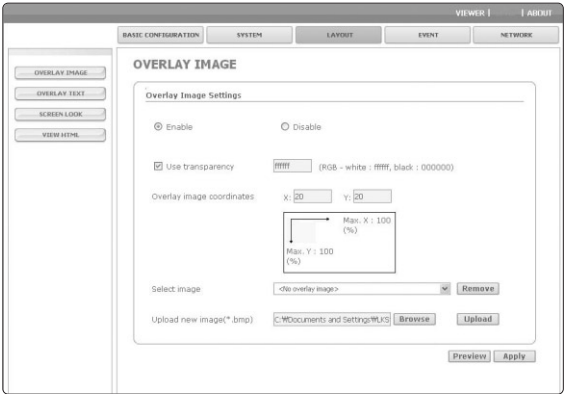
- !

Notice
- The settings must be the same as those of the camera connected to the SNT-1010.

Layout Configuration

You can display image, text, logo and banner on the screen.

To set an overlay image



Click <LAYOUT> → <OVERLAY IMAGE>.

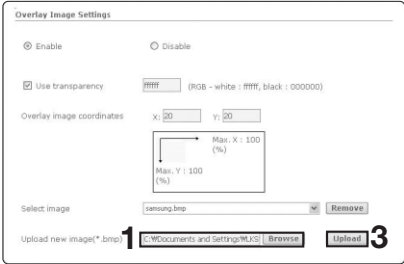
- The OVERLAY IMAGE window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

- <Overlay Image Settings> : The <Disable> option hides an overlay image while <Enable> shows it on the screen.
- <Use Transparency> : You can set the transparency of colors.
Select a value from 000000 to fffffff.
Example) RED : ff0000, GREEN : 00ff00, BLUE : 0000ff
- <Overlay image coordinates> : Set the position (X and Y coordinate) of an overlay image on the screen from 0 to 100. This coordinate represents a relative location according to the image size.
- <Select image> : You can select an image you want among from the uploaded images.
Click the [Remove] button to remove the selected image file.
- <Upload new image> : You can upload an image.

To upload an image



1 In the OVERLAY IMAGE window, click the [Browse] button.

- The Select File window appears.

2 Select a file path and click [Open].

- You will see the file name that you want to upload.

3 Click the [Upload] button.

- The selected file is uploaded and the file is displayed in the <Select image> field.

To preview

Click the [Preview] button.

- You can preview the screen according to your settings.



Note

- <Overlay Image> supports BMP file only.
- You can upload up to 5 image files.
- The maximum allowable image file size is 30 KB.

Layout Configuration (Continued)

To set text



Click <LAYOUT> → <OVERLAY TEXT>.

- The Overlay Text window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

- <Overlay Text Settings> : The <Disable> option hides an overlay text while <Enable> shows it on the screen.
- <Show EncoderBox ip> : Determines whether to display SNT-1010 IP address on the top screen.
- <Show EncoderBox name> Determines whether to display SNT-1010 name on the top screen.
- <Show date> : Determines whether to display date on the bottom screen.
 - <Display format> : Select a date display format.
 YYYY-MM-DD : Year-Month-Day / MM-DD-YYYY: Month-Day-Year / DD-MM-YYYY: Day-Month-Year
- <Show time> : Determines whether to display time on the bottom screen.
 - <Display format> : Select a date time format.
 24hr : Time notation in 24 hours / 12hr : Time notation in 12 hours with AM/PM.
- <Show text> : Determines whether to display text on the bottom screen.
 You can type in up to 10 Alphanumeric or Korean characters in the text box.
- <Text color> : Determines text color. You can select either <White> or <Black>.
- <Background color> : Determines text background color.
 You can select one from <White>, <Black> and <Transparent>.
 <Transparent> option makes the text over the screen image transparently.

To preview

Click the [Preview] button.

- You can preview the screen according to your settings.

To set viewer screen



Click <LAYOUT> → <SCREEN LOOK>.

- The Modify Screen Look window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

- <Logo> : Determines whether to display logo in the main screen.
 - <Select existing image> : You can select a logo from the uploaded logo files.
 Click the [Remove] button to remove the selected logo file.
 - <Upload new image> : You can upload a logo.
 - <External> : You can set a logo file in an external site as a logo for the viewer screen.
 Enter the address of the site including the login file in the URL address input box.
- <Logo Link> : You can set a hyperlink for a logo so that a user can visit the hyperlink by clicking over the logo image.
- <Banner> : Determines whether to display banner in the viewer screen.
 - <Select existing image> : You can select a banner from the uploaded banner files.
 Click the [Remove] button to remove the selected banner file.
 - <Upload new image> : You can upload a banner file.
 - <External> : You can set a banner file in an external site as a banner for the viewer screen.
 Enter the address of the site including the login file in the URL address input box.
- <Banner Link> : You can set a hyperlink for a banner so that a user can visit the hyperlink by clicking over the banner image.



Note

- The logo and banner support only JPG and GIF files.

Layout Configuration (Continued)

To upload a logo

1 In the Modify Screen Look screen, click the [Browse] button.

- The Select File window appears.

2 Select a file path and click [Open].

- The files in the path are displayed.

3 Click the [Upload] button.

- The selected file is uploaded and the file is displayed in the <Select existing image> field.

To upload a banner

1 In the Modify Screen Look screen, click the [Browse] button.

- The Select File window appears.

2 Select a file path and click [Open].

- You will see the file name that you want to upload.

3 Click the [Upload] button.

- The selected file is uploaded and the file is displayed in the <Select existing image> field.

To preview

Click the [Preview] button.

- You can preview the screen according to your settings.

To view HTML code

Click <LAYOUT> → <VIEW HTML>.

- The HTML Code Viewer window appears.

- This function provides information that can be referred to when you want to view an image on your web page using the HTML code.

- Example: You can copy HTML code onto your web page and use it.



Notice

- You have to change the red colored ID and PASSWORD in the HTML code to your login ID and password.

Event Configuration

To set the image transmission function

You can set an FTP/email(SMTP) server to send the prior/posterior alarm image saved in the SNT-1010 when an alarm is generated.

Click <EVENT> → <TRANSFER SETUP>.

- The TRANSFER SETUP window appears.

- **<FTP Transfer> : You can transfer an alarm image to an FTP server.**
When the initial FTP server setting and connection are not verified, the **<Not verified>** message appears.
 - <Use Passive Mode>: Select this option when the passive mode connection is necessary due to firewall or FTP server setting.
 - <FTP Server Address>: Enter the IP address of an FTP server to which an alarm image will be sent.
 - <Upload Path>: You can set the path of the FTP account to transfer an alarm image.
You can set a path by just typing </directory name> or <directory name> in this field. If you do not specify a path, alarm files are sent to the root directory of the FTP account.
 - <Port>: Although FTP server port is 21 as a default, you can change the port number according to the FTP server settings.
 - <User ID>: Enter a user account ID to connect to login the FTP server.
 - <Password>: Enter a user account password to login the FTP server.
- **<E-mail(SMTP) Transfer> : You can transfer an alarm image through E-mail.**
This function supports SMTP e-mail server only. When the initial SMTP server setting and connection are not verified, the **<Not verified>** message appears.
 - <SMTP Server Address>: Enter the IP address of an SMTP server to be used to send an e-mail.
Example) smtp.hotmail.com
 - <User ID>: Enter a user account ID to connect to connect the SMTP server.
 - <Password>: Enter a user account password to the SMTP server.
 - <E-mail Sender>: Enter the address of the e-mail sender. If the sender address is incorrect, the e-mail from the sender may be classified into SPAM mail by the SMTP server and may not be sent.
 - <E-mail Receiver>: Enter the address of the e-mail recipient.
 - <Title>: Enter the title of the e-mail.
 - <Message>: Enter the contents of the e-mail. An alarm image is attached to the e-mail as an attached file.

To test FTP transmission

Click the [Test] button.

- Connect to the configured FTP server and conduct image transmission test automatically.
- When the FTP server connection and transmission tests are complete, the <Verified> message will be displayed.
- If the test fails, an error message appears. In this case, check the FTP server status and the configured settings once again.

To test e-mail transmission

Click the [Test] button.

- Connect to the configured SMTP server and conduct image transmission test automatically.
- When the SMTP server connection and transmission tests are complete, the <Verified> message will be displayed.
- If the test fails, an error message appears. In this case, check the SMTP server status and the configured settings once again.



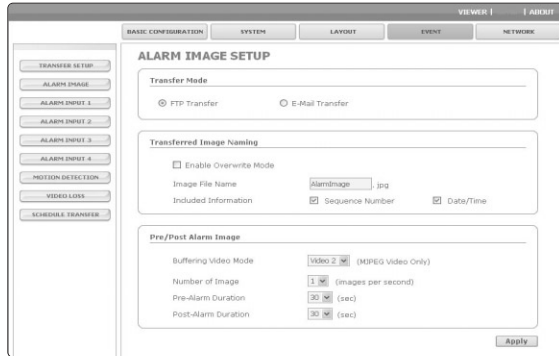
Notice

- If the <Video Format> options of the <VIDEO1> and <VIDEO2> are all set to <MPEG4> in <BASIC CONFIGURATION> → <VIDEO>, the image transmission function is not supported.
- If the system time is not set in the <SYSTEM> → <DATE/TIME>, the image transmission function is not supported

Event Configuration (Continued)

To set an alarm image

You can set an image to be sent through FTP/e-mail(SMTP) when an alarm is generated or during the scheduled transfer.



Click <EVENT> → <ALARM IMAGE>.

- The ALARM IMAGE SETUP window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

- <Transfer Mode> : You can select a method to send an alarm image from the <FTP> and <E-Mail>.
- <Transferred Image Naming> : You can set the file name of an alarm image to be sent when an alarm is generated or during the scheduled transfer.
 - <Enable Overwrite Mode> : You can set so that the file name of the image to be transmitted is overlapped.
 - <Image File Name> : You can set the file name of an alarm image to be sent.
The file name supports up to 16 alphanumeric characters.
 - <Included Information> : You can include sequence number and date/time information in the file name of the image to be transmitted. The name of an alarm that causes an image file transmission is included in the file name of the image.
- <Pre/Post Alarm Image> : You can determine which of previous or posterior image is to be sent.
 - <Buffering Video Mode> : Determines the video source of an image to be transmitted.
 - <Number of Image> : Determines number of images to be sent per second. You can select 1 to 5 images per second.
 - <Pre-Alarm Duration> : Determines time of prior images to be sent. You can select one from <5 sec>, <10 sec>, <15 sec> and <30 sec>. You can send a prior image of up to 30 seconds after an alarm is generated. (The maximum time is determined by the number of images to be sent per second.)
 - <Post-Alarm Duration> : Determines time of posterior images to be sent. You can select one from <5 sec>, <10 sec>, <15 sec> and <30 sec>. You can send a posterior image of up to 30 seconds after an alarm is generated. (The maximum time is determined by the number of images to be sent per second.)



Notice

- If the <Video Format> options of the <VIDEO1> and <VIDEO2> are all set to <MPEG4> in <BASIC CONFIGURATION> → <VIDEO>, the image transmission function is not supported.
- If the system time is not set in the <SYSTEM> → <DATE/TIME>, the image transmission function is not supported.

To set an alarm input



Click <EVENT> → <ALARM INPUT>.

- The ALARM INPUT window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

- <Input Device Setup> : Select an input type from the <OFF>, <NO> and <NC> according to the properties of the alarm sensor connected to the rear panel of SNT-1010.
 - <NO>(Normal Open) : It is normally open but is closed when an alarm is generated.
 - <NC>(Normal Close) : It is normally close but is opened when an alarm is generated.
- <Activation Time>: You can set time to accept an alarm to take an action.
 - <Always> : Always conducts the <Action> setting when an alarm is generated.
 - <Only Scheduled Time>: Conducts the <Action> setting for an alarm only when it occurs during the specified time period on the specified day of the week. The Start Time must prior to and must differ from the End Time.
- <Action> : You can set an operation to be conducted when an alarm is generated.
 - <Alarm Output> : Determines alarm output port to which the alarm signal is to be sent.
 - <Output Duration> : Determines the period of time to output alarm signal to the specified alarm output port when an alarm is generated.
 - <Alarm Image Transfer> : If <On> is selected, a JPG image is transmitted through FTP or E-Mail (SMTP) according to the <EVENT> → <TRANSFER SETUP> settings.



Notice

- If the <Video Format> options of the <VIDEO1> and <VIDEO2> are all set to <MPEG4> in <BASIC CONFIGURATION> → <VIDEO>, the image transmission function is not supported.
- If the system time is not set in the <SYSTEM> → <DATE/TIME>, the image transmission function is not supported.

Event Configuration (Continued)

To set the motion detection function

Click <EVENT> → <MOTION DETECTION>.

- The MOTION DETECTION window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

- <M.D. Function> : <Enable> activates the motion detection function, while <Disable> disables the function.
- <M.D. Configuration> : You can set motion detection performance parameters.
 - <Video> : Select a video signal from <Video1> and <Video2> for motion detection.
 - <Motion Sensitivity> : Select a motion detection function sensitivity from <High>, <Medium> and <Low>. The <High> option provides high sensitivity of motion detection and generates motion detection event if a small motion is detected.
 - <Motion Area> : You can set an area to detect motion.
- <Activation Time> : You can set time to accept a motion detection to take an action.
 - <Always> : Always conducts the <Action> setting when a motion is detected.
 - <Only Scheduled Time> : Conducts the <Action> setting for a motion detection only when it occurs during the specified time period on the specified day of the week. The Start Time must prior to and must differ from the End Time.
- <Action> : You can set an operation to be conducted when a motion is detected.
 - <Alarm Output> : Determines a motion detection output port to which the alarm signal is to be sent.
 - <Output Duration> : Determines the period of time to output the alarm signal to the specified alarm output port when a motion is detected. If another detection event is generated during the alarm output, the delay time is recalculated on the basis of the most recently generated motion detection.
 - <Alarm Image Transfer> : If <On> is selected, a JPG image is transmitted through FTP or EMail (SMTP) according to the <EVENT> → <TRANSFER SETUP> settings.

To set a motion detection target area

You can set a specific area to detect a motion in.



- 1 In the MOTION DETECTION window, click the [Motion Area] button.
 - The Motion Area window appears.
- 2 Click over square boxes corresponding to your desired motion detection target area.
 - The selected area is colored in yellow.
- 3 To cancel a selection, click over the square box once again.
 - The square box returns to its original color.
- 4 To complete the setting, click the [Apply] button.
 - The settings are saved.
 - The motions in the selected area will be detected.

To close the Motion Area window

Click the [Close] button.

- Clicking the [Apply] button does not close the window.



Note

- The motion detection function is supported only for <MPEG4> videos.
- If both of the <Video1> and <Video2> are set to <MPEG4>, you can select one of them.
- If only one of the <Video1> and <Video2> is set to <MPEG4>, the MPEG4 video appears in this field.



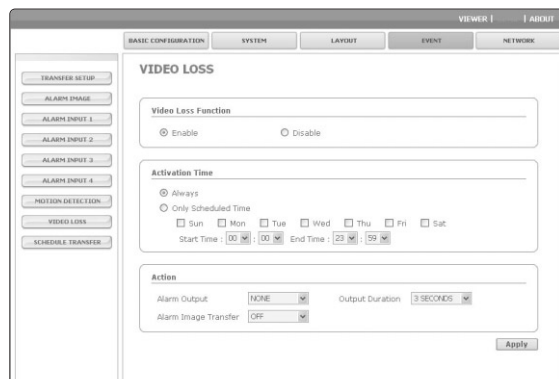
Notice

- If the <Video Format> options of the <VIDEO1> and <VIDEO2> are all set to <MPEG4> in <BASIC CONFIGURATION> → <VIDEO>, the image transmission function is not supported.
- If the system time is not set in the <SYSTEM> → <DATE/TIME>, the image transmission function is not available.

Event Configuration (Continued)

To set video signal loss detection function

You can set an alarm to be generated when the video signal from a camera to SNT-1010 is lost.



Click <EVENT> → <VIDEO LOSS>.

- The VIDEO LOSS window appears.

- <Video Loss Function> : <Enable> activates the video signal loss detection function while <Disable> disables the function.
- <Activation Time> : You can set the time to accept a video signal loss detection to take an action.
 - <Always> : Always conducts the <Action> setting when a video signal loss is detected.
 - <Only Scheduled Time> : Conducts the <Action> setting for a video signal loss detection only when it occurs during the specified time period on the specified day of the week.
- <Action> : You can set an operation to be conducted when a video signal loss is detected.
 - <Alarm Output> : Determines a video signal loss detection output port to which the alarm signal is to be sent.
 - <Output Duration> : Determines the period of time to output the alarm signal to the specified alarm output port when a video signal loss is detected.
 - <Alarm Image Transfer> : If <On> is selected, a JPG image is transmitted through FTP or EMail (SMTP) according to the <EVENT> → <TRANSFER SETUP> settings.



Note

- The Start Time must be prior to and must differ from the End Time.

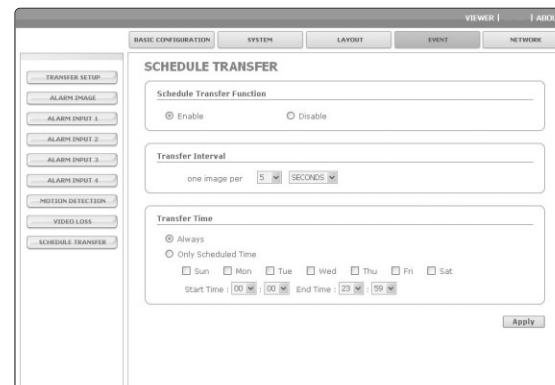


Notice

- If the <Video Format> options of the <VIDEO1> and <VIDEO2> are all set to <MPEG4> in <BASIC CONFIGURATION> → <VIDEO>, the image transmission function is not available.
- If the system time is not set in the <SYSTEM> → <DATE/TIME>, the image transmission function is not available.

To set scheduled transmission

You can have a JPEG image sent through FTP or email periodically.



Click <EVENT> → <SCHEDULE TRANSFER>.

- The SCHEDULE TRANSFER window appears.

- <Schedule Transfer Function> : <Enable> activates the scheduled transmission function, while <Disable> disables the function.
- <Transfer Interval> : You can set the time interval to transmit images. You can select a unit of time from <SECONDS> or <MINUTES>. You can set the time interval so that an image is transmitted every 15/30/45/60 seconds or 5/15/30/45/60 minutes.
- <Transfer Time> : You can set the time to execute the scheduled transmission function.
 - <Always> : Always transmits images according to the specified interval.
 - <Only Scheduled Time> : Transmits images according to the specified interval during the specified time period on the specified day of the week.



Notice

- If the <Video Format> options of the <VIDEO1> and <VIDEO2> are all set to <MPEG4> in <BASIC CONFIGURATION> → <VIDEO>, the image transmission function is not supported.
- If the system time is not set in the <SYSTEM> → <DATE/TIME>, the image transmission function is not supported.



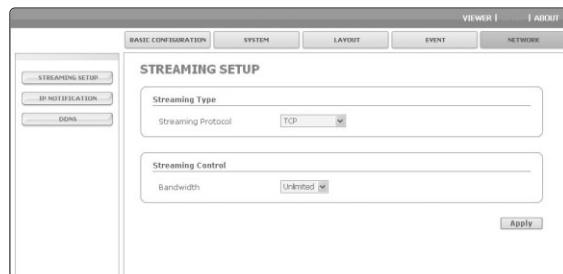
Note

- The Start Time must be prior to and must differ from the End Time.

Network Configuration

To set video streaming

You can control the data transfer rate according to the SNT-1010 video streaming type and network bandwidth.



Click <NETWORK> → <STREAMING SETUP>.

- The STREAMING SETUP window appears.

To complete the setting, click the [Apply] button.

- The settings are saved.

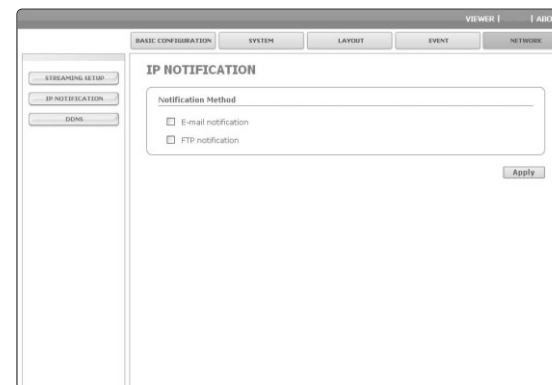
- <Streaming Type> : You can select a protocol for video transmission from the <TCP>, <UDP(Unicast)> and <UDP(Multicast)>.

- <TCP> : It is a general purpose protocol used for a transmission that requires reliability. Since it provides a connectionbased communication between the sender and recipient, it provides high reliability against transmission data loss. However, it is inappropriate to transmit a large amount of data in real-time because of its transmission overhead. It enables reliable data transmission over ADSL and cable network at a relatively slow speed.
- <UDP> : It is a protocol appropriate to transmit a large amount of data such as multimedia data in short time. However, it provides higher transmission efficiency than TCP especially over high speed connections faster than 100Mbps.
- <Unicast> : It refers to transmitting data to only one receiver (1:1).
- <Multicast> : It refers to the data transfer protocol in one-to-many (1:N) between the transmitting and receiving terminals. Although it alleviates the network load, it requires <Multicast> router. For more information such as whether the network over which the SNT-1010 is installed supports <Multicast>, ask your network administrator.

- <Streaming Control> : You need to set the bandwidth to an appropriate value according to the data rate of your network for smooth video streaming.

- You can set the <Bandwidth> by selecting one from <Unlimited/5Mbps/3Mbps/1Mbps/600Kbps/300Kbps/150Kbps>.
- If your network provides data rate equal to or higher than 100Mbps, it is recommended to set the <Bandwidth> to <Unlimited> or <5Mbps>. If you are using a broadband Internet connection, set the <Bandwidth> to <3Mbps> or <1Mbps>.
- If you are using an ADSL or normal low speed DSL network, set the <Bandwidth> to <600Kbps> or lower for smooth video streaming.
- The maximum number of images per second in the video setting menu is automatically determined depending on the selected <Bandwidth> value. ▶ Page 50

To set IP address automatic notification



Click <NETWORK> → <IP NOTIFICATION>.

- The IP NOTIFICATION window appears.

To complete the setting, click the [Apply] button.

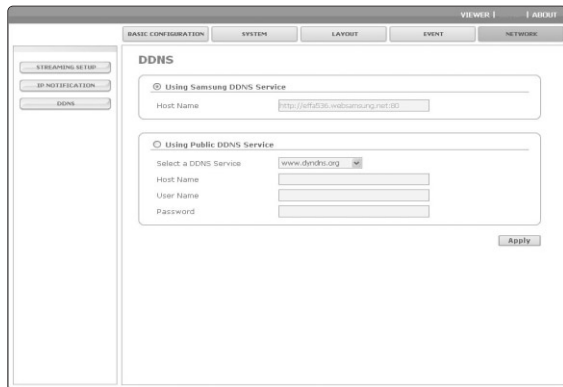
- The settings are saved.

- If the SNT-1010 is set to <Dynamic IP>, you can have the automatically allocated IP address sent to an FTP or e-mail. This function is executed only when the settings and test on the FTP/E-mail (SMTP) of the <EVENT> are done. ▶ Page 68-69

Network Configuration (Continued)

To set DDNS

DDNS is an abbreviation of Dynamic Domain Name Service that converts the IP address of an SNT-1010 into a general Host Name so that the user can easily remember it and enables connecting an SNT-1010 with a fixed Host Name even if the IP address of the SNT-1010 may be dynamically changed.



Click <NETWORK> → <DDNS>.

- The DDNS window appears.

- If Samsung's DDNS service is selected, the Host Name is automatically generated using the SNT-1010 MAC address.
- A SNT-1010 MAC address consists of <One among from lower-case alphabet characters of e, m and p> + <Last 6 digits of the MAC address> + <websamsung.net>.
- The lower-case alphabet letter becomes <e> if the first 6 digits of the MAC address is <00:00:f0>, <m> if <00:16:6c>, and <p> if <00:68:36>.

Example) - If the MAC address of SNT-1010 is 00 : 00 : f0 : ff : fe : 42 :
e + fffe42 + websamsung.net = efffe42.websamsung.net

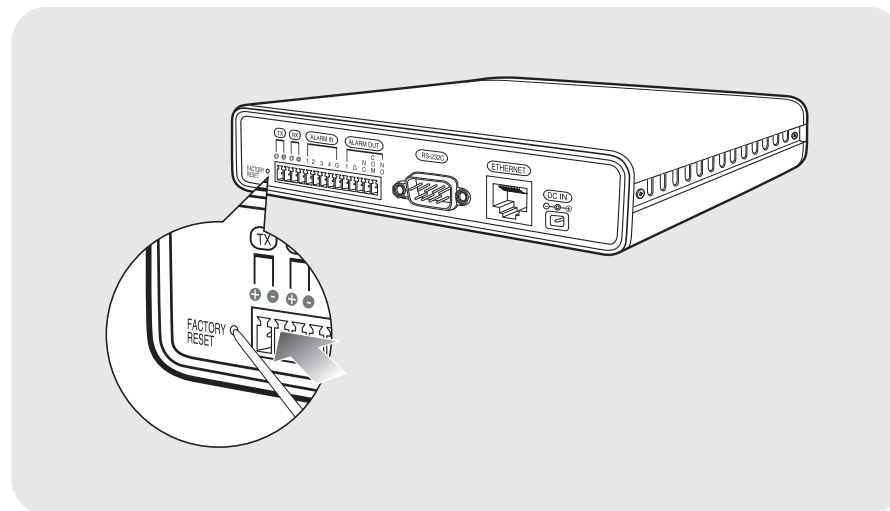
- If the MAC address of SNT-1010 is 00 : 16 : 6c : ff : fe : 42 :
m + fffe42 + websamsung.net = mfffe42.websamsung.net

- If the MAC address of SNT-1010 is 00 : 68 : 36 : ff : fe : 42 :
p + fffe42 + websamsung.net = pfffe42.websamsung.net

- To use another DDNS service, sign up a DDNS site that is supported by an SNT-1010 and use it with the user ID and password you have specified when you sign up the site.
- For information about how to sign up another DDNS and setup Host Name, please visit the corresponding DDNS service website and ask about that.

Resetting the System

You can initialize all settings of this product when it does not work properly or causes a problem.



Press and hold the [FACTORY RESET] button on the rear panel of the product for 3 seconds and release it when the [STATUS] indicator blinks 3 times.

- The [STATUS] LED turns green and the system restarts when all the settings are initialized.



Notice

- Since if the product is reset, all settings are initialized, you must configure basic network settings such as IP Address, Subnet Mask, Gateway, etc., using the <IP Installer.exe> program.



Note

- You can reset the system even from a remote location by selecting <SYSTEM> → <RESET>.

Trouble-shooting

I can't connect to SNT-1010 using the web browser.

- Check if the <Network>settings of your SNT-101 are correct.
- Check if the network cables are correctly connected.
- If you are using the DHCP server, check if your SNT-1010 has acquired a dynamic IP successfully.
- If you are using the DDNS URL, check if the MAC address is entered correctly.
- If your SNT-1010 is connected to the xDSL networks, check if the <Bandwidth> is set to 600 kbps or less.
For xDSL, the transfer rate is not so fast. So if you set the <Bandwidth> too high, the network load can crowd the traffic, causing some delay.
- If your SNT-1010 is connected to the IP sharer, check if the port forwarding properly set.

The <Viewer>, currently monitoring the image, has disconnected.

- If other user changes the SNT-1010 or <Network>settings, any <Viewer> connected to it will lost the connection.
- Check if the network is properly set and connected.
- If your SNT-1010 is connected to the xDSL network, the Viewer can be disconnected from a possible traffic jam.

I see nothing on the screen.

- For Windows 2000 users, check if the DirectX version on your PC is 8.1 or later.
On desktop, select [Start] → [Run] and type in "dxdiag" to check the DirectX version on your PC.

I couldn't upload any image in the <OVERLAY IMAGE>page.

- You can upload a maximum of 5 image files. First, check the number of images uploaded.
- Only the <OVERLAY IMAGE> that has a BMP format in less than 30 KB is available.

I have entered 100 for X, and another 100 for Y as coordinate values for the display image. But I can't see any image on the screen.

- The X and Y coordinates represent the top left position of the image on the screen.
So, if you enter 100 for both X and Y values, you will see nothing on the screen.
- Adjust the X and Y coordinates to display the image and fine-tune the values as you want.

In the <OVERLAY TEXT>page, you can't enter more than 10 characters for <Show Text>.

- The product does not support more than 10 characters for text output in both Korean and English.

If I press the <Preview> button, does that mean my settings are automatically applied?

- No, it doesn't. <Preview> just shows the current image on the screen.
Make sure to press the <Apply> button before your settings can be applied.

I have clicked on a banner in the <Viewer> window but I couldn't see any page linked to it.

- First, check if the banner-linked page is currently available.

I created a new HTML page using the HTML tag editor provided by <Viewer HTML>. But when I open the page, nothing but the error message is displayed.

- First, check if the ID and Password values are properly changed.
- You must change the user ID and password in advance.

I have set <M.D. Function> to <Enable> in the <MOTION DETECTION> menu. However, even if my camera detects any motion, it doesn't transfer the jpg file to FTP/SMTP.

- Follow the instructions below to check your settings.
 - a. The NTP is correctly set.
 - b. For the two <VIDEO SOURCE> values, one is set to MPEG and the other to MJPEG.
 - c. The <M.D. Function> is set to <Enable>.
 - d. The <Alarm Image Transfer> is set to <ON>.
 - e. Check if it works properly on the scheduled time.

Can I adjust the <Motion Area> setting if the <M.D. Function> is set to <Disable>?

- Yes, you can. You can set the <Motion Area>, regardless of the availability of the motion detection function.

I have pressed the <Apply> button in the <Motion Area> window but the image does not disappear.

- You must press the <Close> button so that the <Motion Area> window disappears.
You don't need to open a new <Motion Area> window to change the settings.

A motion event occurred. But no alarm makes any sound.

- First, check if you have set the alarm output port correctly.

The PTZ button is not activated in the <Viewer> window.

- First, check the settings of <SETUP> → <SYSTEM> → <RS485>.
If the <Protocol> is set to <None>, the PTZ button will not be activated.

Trouble-shooting (Continued)

I can't control over the PTZ device

- First, check the settings of <SETUP> → <SYSTEM> → <RS485>. Refer to the user guide of the external device connected to SNT-1010 for correct settings.

The menu of the external PTZ device appears somewhat later.
Or, the response from the external PTZ is delayed when I manipulate it.

- The amount of data is comparatively great considering the network transfer rate. In <SETUP> → <BASIC CONFIGURATION> → <VIDEO> set the <Resolution> to <CIF> or, the <Low>.

When my SNT-1010 has restarted, the [Status] indicator still stays red.

- First, check the settings of <SETUP> → <SYSTEM> → <DATE/TIME>. This is due to a connection failure to the NTP server. So It couldn't display the time information.

I have selected Set in the IP Installer list and pressed the [Manual Set] button. But I couldn't change the IP address and port number.

- Check the [IP Type] switch on the front panel for the position. If the switch is positioned to [D], this is in Dynamic IP mode. In this case, the IP address and port number are allocated by DHCP, which you can't change.

For [Auto Set], why the IP address and port number are changed when the port mapping has failed?

- [Auto Set] will perform both the IP and Port setting and [Port Mapping]. You can change the IP address and port number, regardless of the [Port Mapping] results.

The port mapping for both [Auto Set] and [Manual Set] does not work.

- Check the current IP sharer for compatibility with SNT-1010.(see page 5)
If your IP sharer is listed in the list, check if the UPnP check box is selected on the main menu window of the sharer (normally, 192.168.1.1).
If not listed, check your IP sharer for UPnP accessibility and if the problem persists, replace it with one in the list.

When I connect SNT-1010 to the power source, the status indicator keeps blinking in red and I can't connect to the network using the browser.

- If SNT--1010 fails to connect to the set NTP server,it attempts to connect to other NTP servers.So if the IP settings of the SNT-1010 are incorrectly configured or the network environments are not in normal conditions,it will take as long as several minutes to restart the SNT-1010. You can access the network when the status indicator turns into red or green.

Specifications

OS	SNT-1010		Embedded Linux	
	PC		Windows XP / Windows 2000 Professional	
Browser DirectX	Internet Explorer 5.0 or Higher DirectX 8.1 or Higher			
CPU Hardware	32bit RSIC Flash 16Mbyte SDRAM 32Mbyte			
Network	Physical layer	10/100BASE-T		
	Network Protocol	TCP, UDP, NTP, HTTP, DHCP,		
	Streaming	TCP, UDP(Unicast, Multicast)		
	UPnP	Supporting Auto Network Configuration		
	DDNS	Supporting Samsung DDNS and Public DDNS servers		
Video	IN	Composite 1 Channel		
	OUT	1 BNC (Loop Through Out) - Auto Termination		
Audio	connector	3.5 mm jacks		
	Input/Output	Mono 1 chanel / Mono 1 channel,		
	Bidirectional audio	Full duplex Supporting		
Compression	Video	MPEG-4, M-JPEG		
	Audio	G.711, 64kbps 8kHz sampling		
Video resolution	NTSC	D1	720x480	
		VGA	640x480	
		CIF	352x240	
		QCIF	176x112	
	PAL	D1	720x576	
		VGA	640x576	
		CIF	352x288	
		QCIF	176x144	
Frame Rate	NTSC	30, 15, 7.5, 3, 1 FPS		
	PAL	25, 12.5, 6.25, 3, 1 FPS		
Video Quality	Quality		Very High, High, Normal, Low, Very Low	
Motion Detection	Sensitivity		High, Medium, Low	
Alarm I/O	Input :4 Input (5 mA sink)			
	Output 1 (24VDC 40mA Max)			
	Relay OUT (30VDC 2A,125VAC 0.5A Max)			
Alarm Event	Alarm Input		Image transfer : FTP, E-mail Notification :notify to viewer and file server Alarm Out	
	Video Loss		Image transfer : FTP, E-mail Notification :notify to viewer and file server Alarm Out	
	Motion Detection		Image transfer : FTP, E-mail Notification :notify to viewer and file server Alarm Out	
	Schedule		Image transfer : FTP, E-mail	

Specifications (Continued)

RS485	Half / Full duplex Mode, PTZ Control		
PTZ control	Pan / Tilt / Zoom control		Auto pan, preset, scan, pattern, Power PTZ function support
IP Installer	Ip address installation		IP installation function (XP, win 2000 support)
Software Upgrade	Software upgrade by web browser		
Access Level	Login access Level		Guest, Administrator, Operator, User
IP Notification	Dynamic IP Notify		SMTP(E-mail), FTP
Time setting	Time setting		NTP, Time Zone, Summer Time setting
1CH Recording Playback	Recording/Playback		Max 10min record can be recorded when PC Hard Disk available space is bigger than 20%of total space
SDK	HTTP API	Application program interface	Provides functionality to set/retrieve internal parameter values.
	Windows API	Windows API	ActiveX components for viewing streams from video camera and controlling.
Environmental Conditions	Operating Temperature		0°C ~ + 40°C
	Preservation Temperature		- 20°C ~ + 60°C
	Operation Humidity		20% ~ 85%RH
	Preservation Humidity		20% ~ 85%RH
Power	Power Requirement		DC8.4V (External Adaptor)
	Power Consumption		5W
Physical Specification	Dimensions (WxDxH)		W160 X D136 X H33 mm
	Weight		0.42KG

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